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Preface

This is a guide for system administrators. It provides information about all installation and configuration steps to setup the RiskVision solution and enable user access.

Document Conventions

The following conventions are used to help the user identify certain types of information.

Convention	Usage
bold	Command names, options, window, and screen objects such as buttons and links (for example, the **OK** button).
italics	Variable information, wizard page names, and book titles.
`monospace`	File names, attributes path names, and programs.

Special Icons

In this document, icon graphic symbols are used to indicate special notes or specific information. The following table shows the type of information that each icon represents:

Alert Labels	Usage
Warnings	For important instructions, cautions or critical information.
Tips or information	For tips, shortcuts, or other helpful product information.
Notes	For notes or recommendations.

Terminology

JasperReports Server is a business intelligence product of Jaspersoft Corporation. It is integrated with RiskVision to compile data into a compact report. JasperReports Server will be referred to as either **JasperReports Server** or **RiskVision Report Server**.

Resolver Support and Professional Services

Resolver offers both Professional Services and Customer Support to assist customers at every stage of the application's lifecycle. This support includes the initial deployment, future expansion or migration, and ongoing use of the platform.

For customers looking to design and configure a tailored security risk and compliance management solution, Resolver Professional Services can help with installation and configuration, content development, automation options, process development, and report design. For more information or to inquire about a Resolver Professional Services engagement, please contact your Resolver Customer Support Representative.

Resolver Customer Support can assist the user with any product questions and resolve issues that may have occurred with the RiskVision deployment.

Resolver Technical Publications

If any additional information about the Resolver RiskVision is needed, the following additional documentation manuals and guides are available for customers to view:

RiskVision Installation and Configuration Guide

RiskVision Upgrade Guide

RiskVision Administrator's Guide

RiskVision Compliance Manager User's Guide

RiskVision Enterprise Risk Manager User's Guide

RiskVision Incident Manager User's Guide

RiskVision Policy Manager User's Guide

RiskVision Threat and Vulnerability Manager User's Guide

RiskVision Vendor Risk Manager User's Guide

RiskVision Questionnaire Responders Guide

RiskVision Analytics Guide

RiskVision Connector Reference Guides (provided for individual connectors installed in your environment)

These documents are available within RiskVision. In the RiskVision application, go to **Administration > Server Administration** and then click the **Documentation** tab.

Jaspersoft Documentation

Jaspersoft documentation is available on the Windows start menu:

- RiskVision Report Server - **Start** > **All Programs** > **RiskVision Report Server** > **JasperReports Server Documentation**

Resolver Customer Support Portal

For customer support for Resolver RiskVision, visit the Resolver Customer Portal, where you can access release notes, documentation, content packs, news and announcements, or create a ticket.

RiskVision and Jaspersoft

This section covers the features Charts, Dashboards, Report Templates, JasperReports Server: Table, Chart, Crosstab, Report Conversion, and Updating the Customized Labels in a Jaspersoft Domain

Import or Export Jasper Reports

Users can import and export Jasper Reports data through the user interface or via command line.

Import or Export Data Through the UI

To import data using the Server Settings:

1. Navigate to **http://[localhost]:8480/jasperserver-pro/**.
2. Log into Standalone as **sysadmin**.
3. Click **Manage > Server Settings > Import**.
4. Select the data you wish to import, then click **Import**.

To export data using the Server Settings:

1. Navigate to **http://[localhost]:8480/jasperserver-pro/**.
2. Log into Standalone as **sysadmin**.
3. Right-click the report you wish to export, then click **Export.**

You can also export reports by right-clicking the report in Jasper Reports, then selecting **Export**.

To export report data using commands:

1. Navigate to the `\buildomatic` directory.
2. Run one of the following commands:
   - To export a report or object data, such as data source, input control, image, etc.:
     - To retrieve the report or object data in a .zip file: `js-export --uris /organizations/Agiliance/Reports/ --output-zip report.zip`
     - To retrieve the report or object data in a folder structure: `js-export --uris /organizations/Agiliance/Reports/ --output-dir report`
   - To export the entire repository:
     - To retrieve repository data in a .zip file: `js-export --everything --output-zip repository.zip`
     - To retrieve repository data in a folder structure: `js-export --everything -output-dir repository`

To import data into the repository using commands:

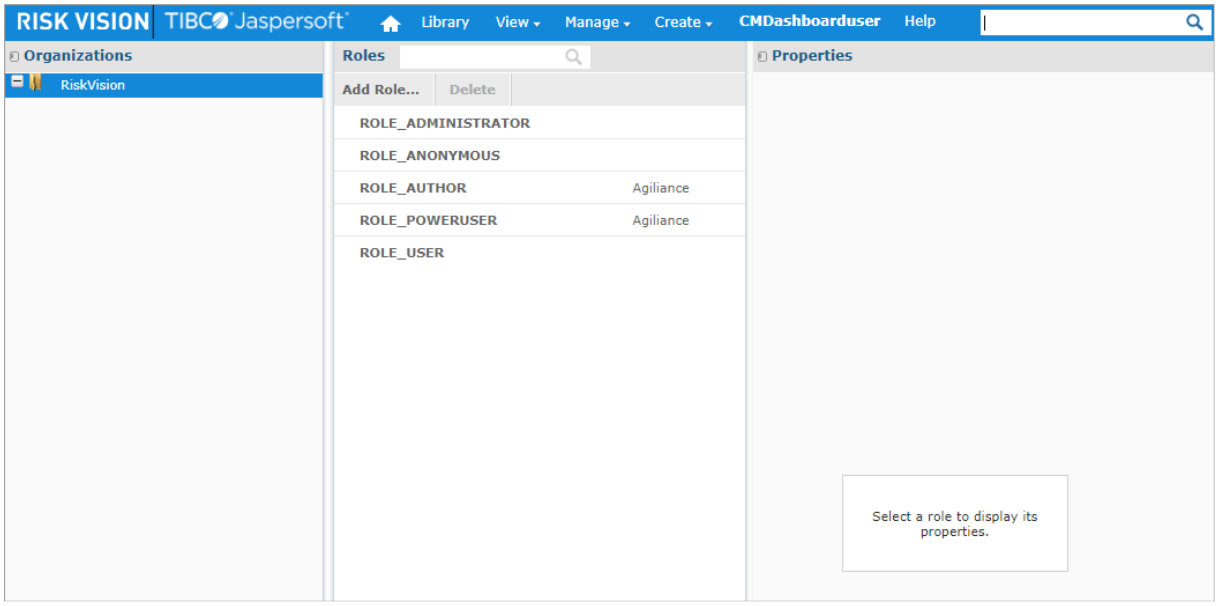
1. Navigate to the `\buildomatic` directory.
2. Run one of the following commands:
   - To import data via .zip file: `js-import --input-zip .zip`
   - To import the report or object data in a folder structure: `js-import --input-dir` ;

Note, you may add `--update` at the end of either of the previous commands in this step to overwrite existing imported data with newly imported data.

Create a Role in Jaspersoft

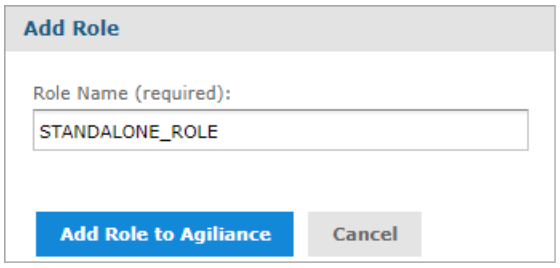
To create a new role in the Jasper Reports server:

1. Login to Standalone as **sysadmin**.
2. Navigate to **Manage > Roles > Add Role**..



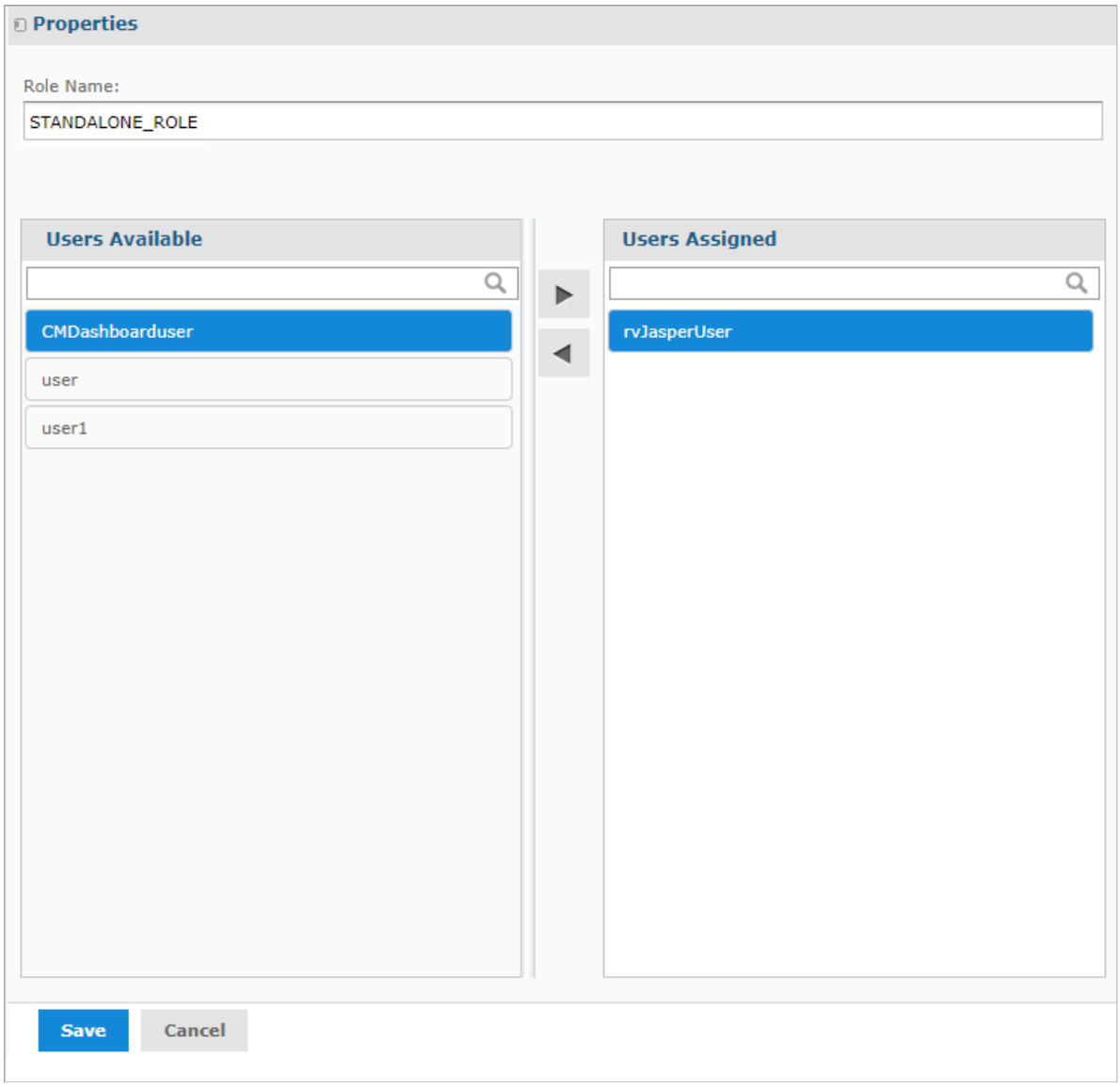
The Roles settings in Jaspersoft.

3. Enter a name for the role in the **Role Name** field, then click **Add Role to Agiliance**. Spaces and special characters are not permitted.



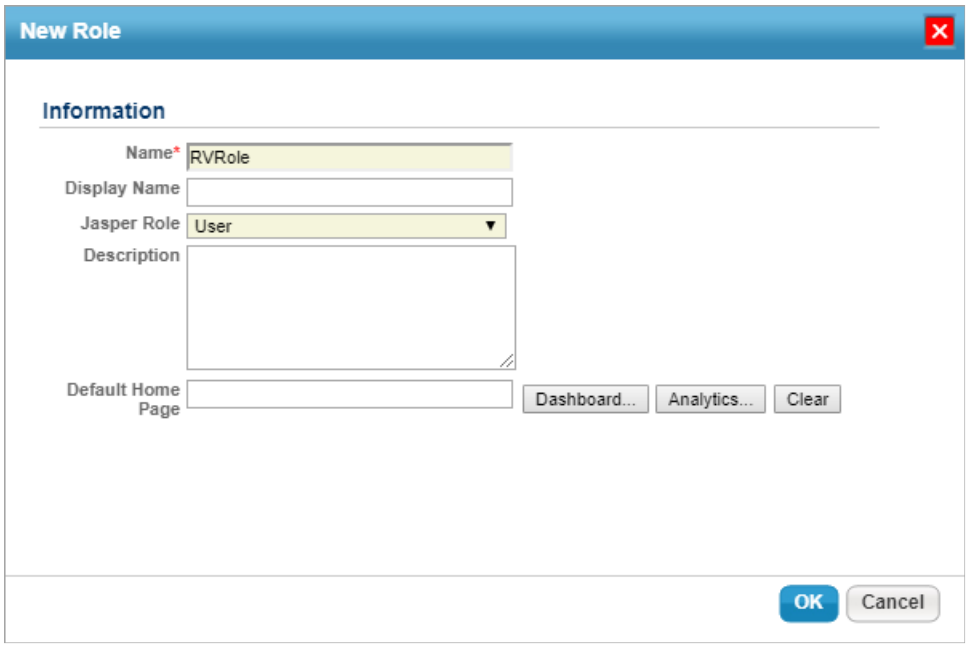
Adding a new role in Jaspersoft.

4. In the **Properties** section to the right, select the RiskVision users to add to the role from the **Users Available** pane, then click the **>** arrow to add the users to the **Users Assigned** pane. To remove users, select them in the **Users Assigned** pane, then click the **<** arrow.



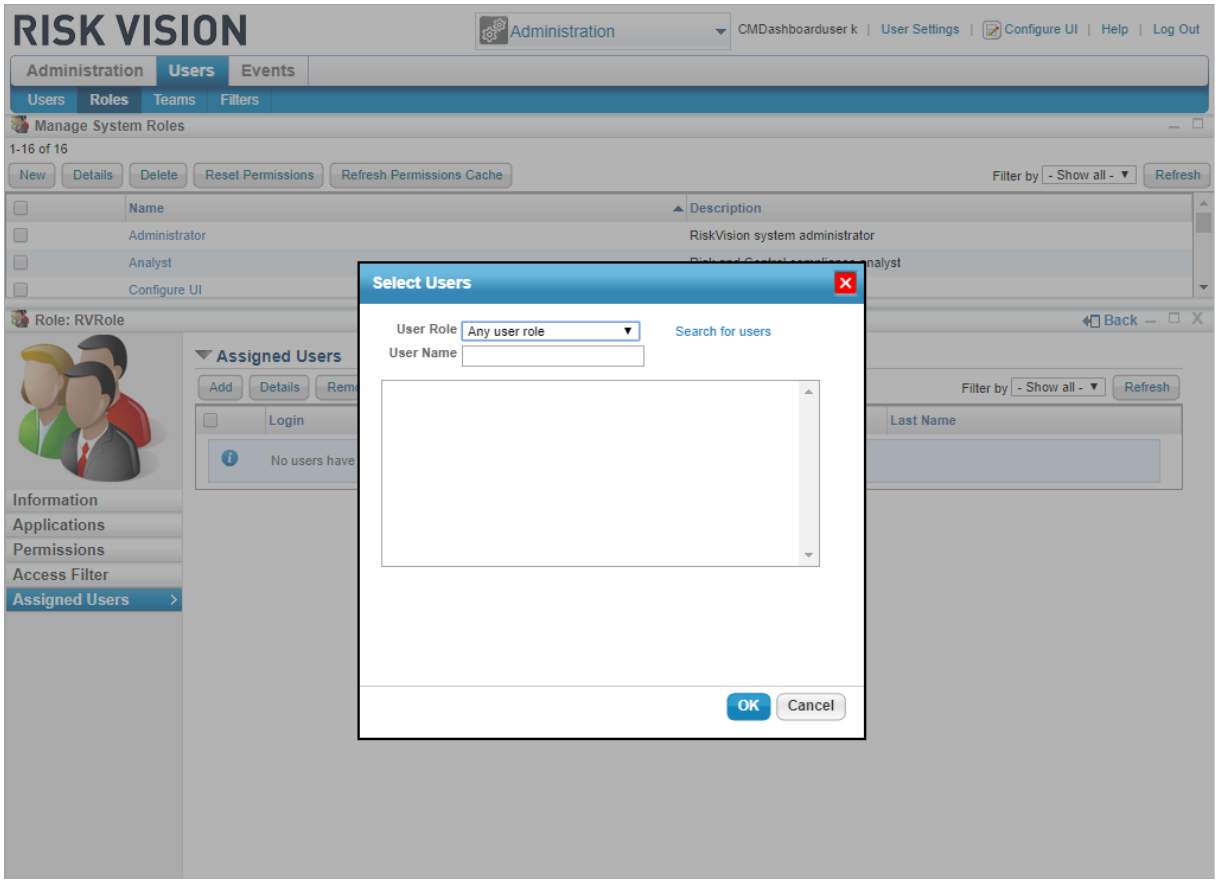
Assigning users to a role in Jaspersoft.

5. Click **Save**.
6. In RiskVision, navigate to **Administration > Users > Roles**
7. Create a role in RiskVision, ensuring a selection is made from the **Jasper Role** dropdown menu, and assigning permissions as required. See the Create a New Role article for more information.



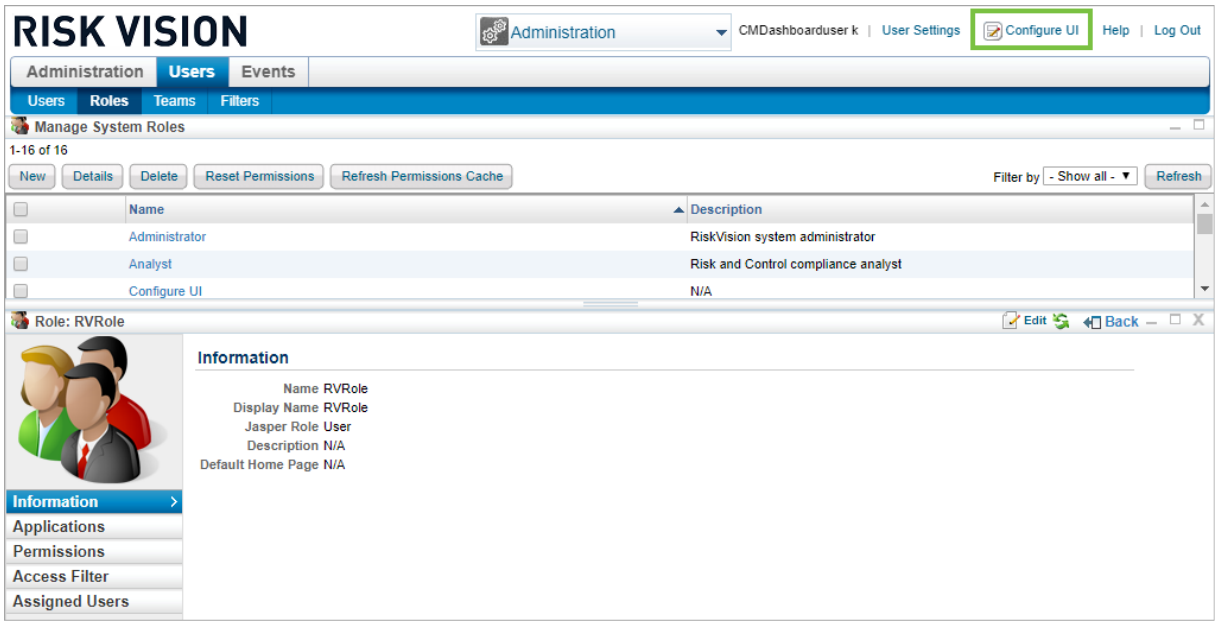
The New Role window in RiskVision.

8. From the new role's settings, click **Assigned Users > Add**, then select the same user(s) added to the Jaspersoft role in step 4 above.



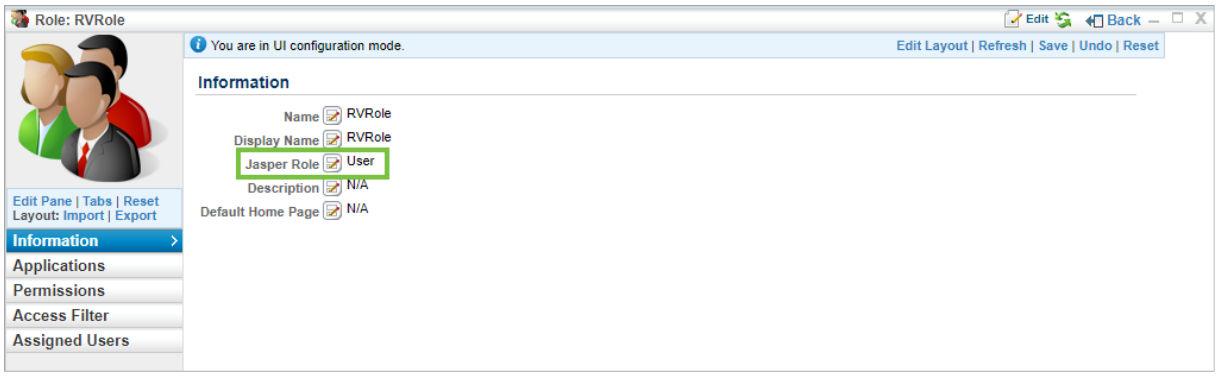
Adding a user to a role in RiskVision.

9. Click **Information** in the menu to the left.
10. Click **Configure UI** to enable **Configuration mode**, then click **OK** to close the confirmation message.



The Information section of the role's settings.

11. Click the icon beside the **Jasper Role** field to open the **Configure attribute** window.

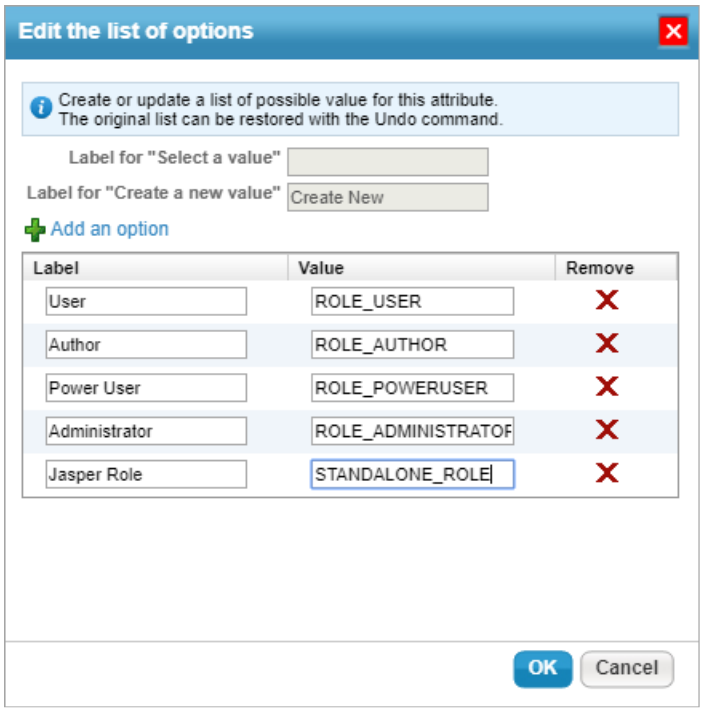


The Jasper Role field in the Information settings of the role.

12. Click **Edit Options**.

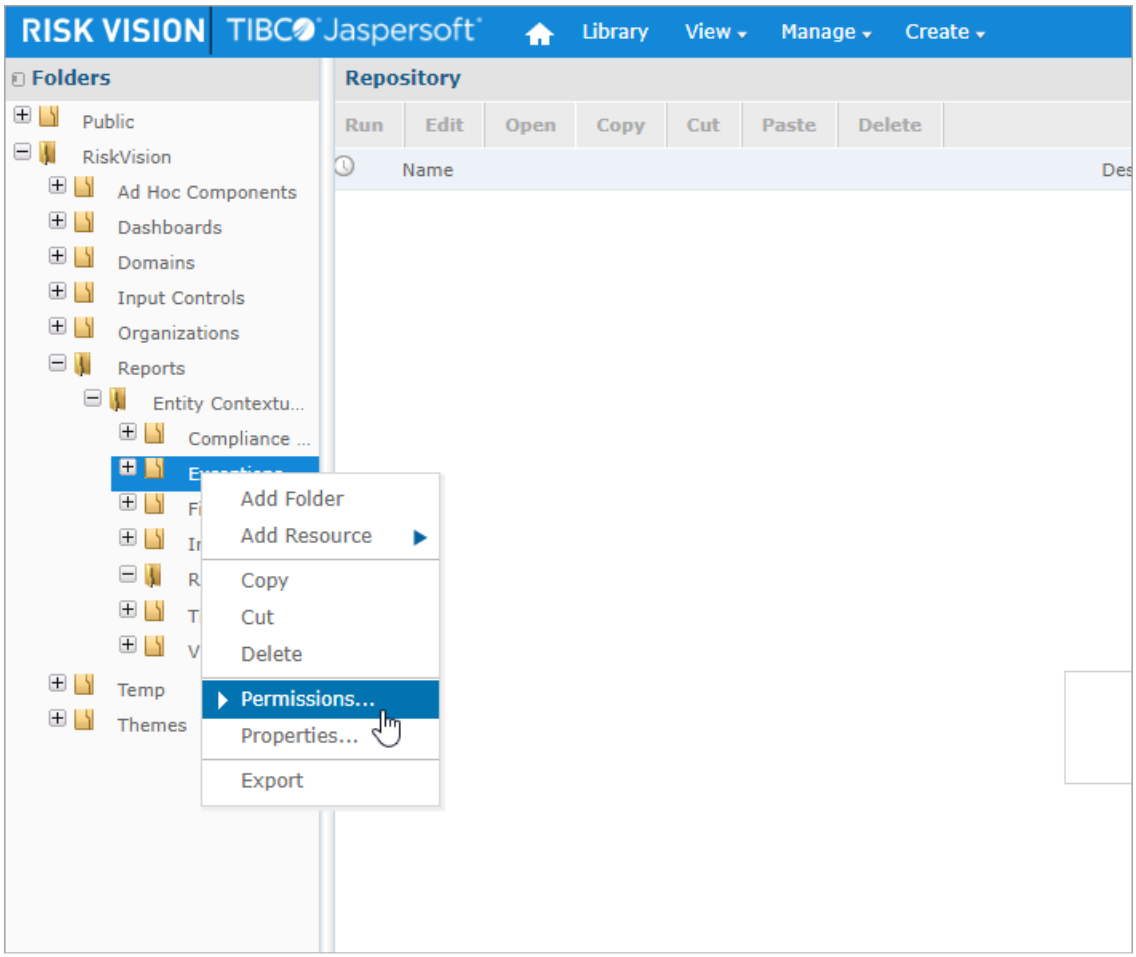
The Configure attribute window.

13. Click **Add an option**
14. Enter a label in the **Label** field and type the exact name of the Jaspersoft role created in step 3 above in the **Value** field.



Adding the Jasper

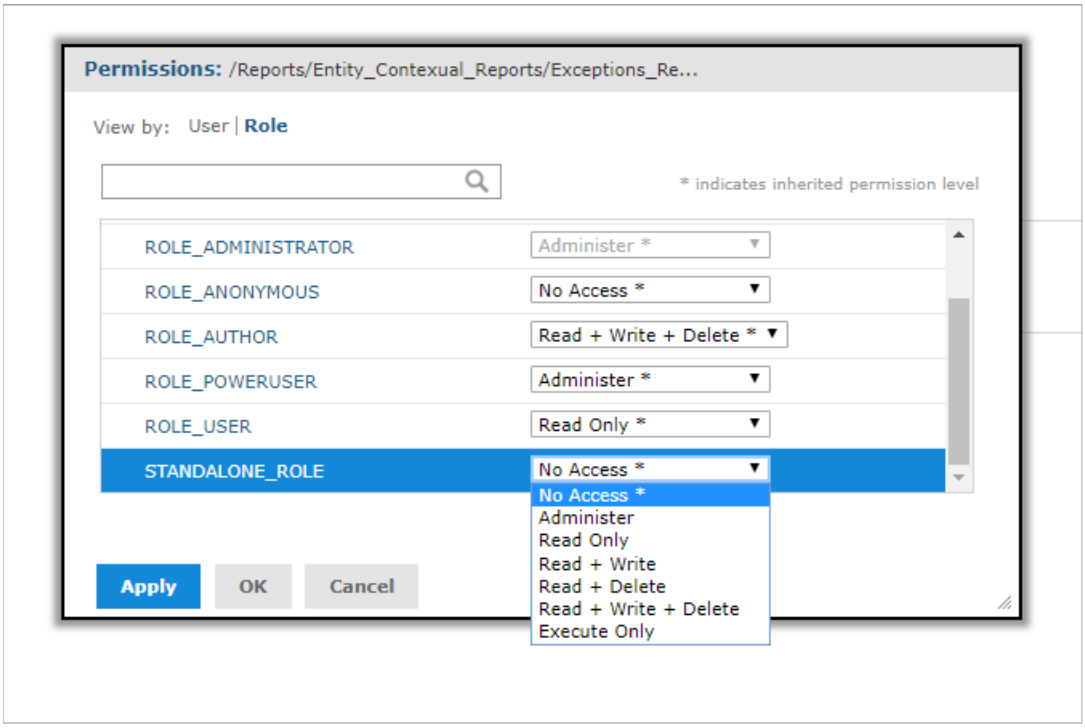
15. Click **OK** to close attribute windows and save your changes.
16. Click **Configure UI (active)** in the top-right corner of the page to disable **Configuration mode**, then click **OK** to save your changes.
17. Navigate to Jaspersoft **> View > Repository**, ensuring you're still logged into Standalone.
18. Expand the **RiskVision** folders in the **Folders** tree to the left to display the folders you wish to apply role permissions on.
19. Right-click a folder, then select **Permissions.**



The Repository settings in Jaspersoft where you can apply role-specific permissions to each folder.

20. Apply permissions on the folder for the role created in step 3 above as needed. Note that RiskVision roles are automatically assigned the **ROLE_USER** role in Jaspersoft and this role cannot be removed, but its settings may be overridden by following the instructions below:

    - To deny access to a folder, assign **No Access** permissions on the **ROLE_USER** role and the RiskVision role.
    - To provide read-only access to a folder, assign **No Access** permissions on **ROLE_USER** role and **Read Only** access the folder on the RiskVision role.



Permission settings for a folder.

21. Click **Apply** to save your changes.

R6 Report License

Resolver is preserving R6 Reporting for long-time RiskVision customers who have legacy reports in R6 Reporting that they have not been able to transition to RiskVision's JasperReports Server. As of Version 9.0, customers will need to request a license key with R6 Reporting enabled from Resolver Support.

The following table shows the differences in RiskVision's behavior when the R6 license is enabled:

FEATURE	WITH R6 LICENSE	WITHOUT R6 LICENSE
Menus Available in the Analytics Tab	• Analytics and Reporting • R6 Dashboards and Reports • R6 Charts • R6 Report Templates • R6 Report Status	• Analytics and Reporting
Configure UI Permission	Required for creating an R6 Custom Query chart.	Required to view and create R6 charts. Only table-type charts with custom queries can be created.
Enabled Properties	• To create R6 Charts, enable allowNewReport=true • To create R6 Dashboards and Reports, enable allowNewDashboard=true	• To create R6 table-type charts with custom queries, enable allowNewReport=true
Viewing R6 Charts, Dashboards, and Reports	Users can access R6 Dashboards and Reports, R6 Report Templates, and R6 Report Status.	• To view archived R6 Charts, enable showArchivedReports=true • To view archived R6 Dashboards and Reports, enable showDashboardPage=true
New Group and **Export Group** Actions	Users can select **New Group** and **Export Group** under **My Charts** and **My Dashboards**.	Users cannot execute **New Group** or **Export Group**.

The Analytics tab with an R6 License.

The Analytics tab without an R6 License.

Running a Chart

Running a chart combines a chart definition with the latest information. To run a chart, you will need the Dashboards and Reports View permission.

To run a chart:

1. On the **Analytics** menu, click **R6 Charts**.
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts that the group contains. Locate the desired chart in the list on the right, and check the box associated with the chart.
3. Click **Run**.

Scheduling a Chart

Charts can be scheduled to run at regular intervals, starting at a specified day and time. In order to a schedule a chart, your user role must have the Dashboards and Reports View permission.

To run a chart at regular intervals:

1. On the **Analytics** menu, click **R6 Charts.**
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts that the group contains. Locate the desired chart in the list on the right and check the box associated with the chart.
3. Select **Schedule** in the **More Actions** drop-down list. The **Schedule** dialog appears.
4. Enter the following parameters:

Parameter	Description
Frequency	Choose Daily, Weekly, Monthly, or Hourly.
Start Time	Enter the time of day of when to run the chart.
Start Date	Enter the date on which to run the first chart.
Select the Days of the Week (Weekly)	Check the days on which to run the chart.
Select the days of the month and the months (Monthly)	Select the day of the month: First, Last, Fifteenth, or enter a particular day, such as the 10th. Check the months in which to run the chart.
Frequency in hours (Hourly)	Enter the number of hours between runs of this chart.
Perform this task (Daily)	Select how often the chart must be run. Choose Every Day, Weekdays, or Weekends.
Email archived report to current user	Check to send the report to the currently logged-in user.
Password protect archived report in email	Check to protect the archived report with a password.

5. Click **OK**.
6. Confirm that the chart has been scheduled by clicking **Administration** > **Scheduled Jobs**. To show only scheduled charts, **filter by Job Group** and enter Charts.

Editing a Chart

Depending on your privileges, you may edit or delete particular chart definitions. Editing and deleting a chart requires you to have the Dashboards and Reports View and Dashboards and Report Author permissions.

To edit a chart definition:

1. On the **Analytics** menu, click **R6 Charts**.
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts that the group contains. Locate the desired chart in the list on the right, and check the box associated with the chart.
3. Click **Edit**.
4. Click on the tabs along the top — **General Configuration, Chart Type, Column Selection, Configure Filters, Advanced Settings** — to go directly to the page to edit. Click **Next** and **Previous** to edit multiple pages.
5. Click **Finish** when the edits are complete.

To delete a chart definition:

1. On the **Analytics** menu, click **R6 Charts**.
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts. Locate the desired chart in the list on the right and check the box associated with the chart.
3. Click **Delete**.

Archiving Charts

Running a chart with the latest information and saving the results is called archiving the chart. The dated chart will then be available in the system as historical data. Your user role must have the Dashboards and Reports View permission in order to archive a chart.

To archive a chart:

1. On the **Analytics** menu, click **R6 Charts**.

2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts. Locate the desired chart in the list on the right and check the box associated with the chart.

3. Select **Archive** from the pull-down list of More Actions.

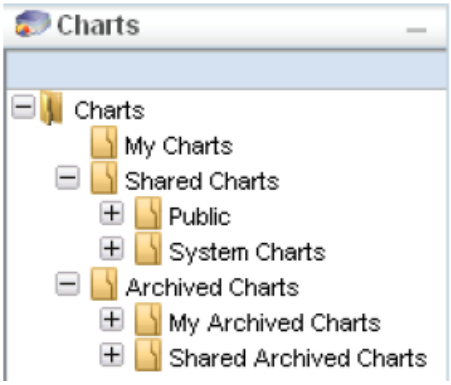
4. Select the destination '**Archived charts folder**.' Change the chart's name, if desired, and choose an output format:

- PDF
- HTML
- PNG
- CSV (table charts only)

If you have archived reports and dashboards in a version earlier than 7.5, those reports and dashboards will fail to open in version 7.5. To open the archived reports in 7.5, move the files one level down to the %AGILIANCE_HOME\data\reports directory from the %AGILIANCE_HOME%\data directory. To open the archived dashboards in 7.5, move the files one level down to the %AGILIANCE_HOME\data\dashboards directory from the %AGILIANCE_HOME%\data directory.

Understanding The Chart Tree Structure

The chart tree structure, on the left side of the window, provides easy access to RiskVision charts available in various folders such as My Charts, Shared Charts, and Archived Charts. The ability to view, run, create, delete, and perform other actions on charts depends on your roles and permissions. You can create a new group under the Public group of Shared Charts if you have the Dashboards and Reports View permission. However, adding and managing a group in other groups including the Public group requires you to have the Dashboards and Reports View and Dashboards and Reports Author permissions.



You can create additional folders, but the chart tree includes the following folders by default:

- **My Charts**. Contains the charts for which you are an owner.
- **Shared Charts**
  - **Public**. Contains charts that can be accessed by all users.
  - **System Charts**. Contains predefined charts that you can use as-is or that you can copy to provide a basis for your own charts.
- **Archived charts**
  - **My Archived Charts**. Contains the results of running charts for which you are an owner and charts that you have run.
  - **Shared Archived Charts**. Contains historical charts that can be viewed by any user.

For more information see Archiving Charts and Copying a Charts.

Copying a Chart

To copy a chart, use the Export and Import functions. Export saves the chart definition locally in an XML file. Edit the XML file as desired (for example, to change the chart name) and then import the XML file to create a new chart definition. To perform the export and import actions, your user role must have the Dashboards and Reports View and Dashboards and Reports Author permissions. Note that system charts can be exported using the Dashboards and Reports View permission.

To Copy a Chart:

1. On the Analytics menu, click R6 Charts.
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts. Locate the desired chart in the list on the right, and check the box associated with the chart.
3. Select Export in the More Actions drop-down list.
4. Save the chart to a local folder.
5. Edit the locally-saved XML file by using a text editor (such as Notepad) and change the chart name.
6. Choose the destination chart group and select Import in the More Actions drop-down list. Select the edited XML file and import the chart definition.

Note for IE6 users

Because RiskVision uses secure communications between the browser and server (HTTPS), IE6 may report an error instead of downloading a PDF or other format file. The error is:

Internet Explorer cannot download from .

To work around this IE6-specific behavior, uncheck the IE6 option "Do not save encrypted pages to disk." This issue is not a problem in other browsers or other versions of Internet Explorer. For more information and a hotfix from Microsoft, see support.microsoft.com.

Exporting Charts

Chart definitions can be saved locally in XML format. Charts that have been exported can be imported to create new chart definitions. SeeCopying a Chart.

To export a chart definition:

1. On the **Analytics** menu, click **R6 Charts**.
2. Locate the chart group containing the desired chart in the tree on the left. Click the chart group to display the charts that the group contains. Locate the desired chart in the list on the right and check the box associated with the chart.
3. Select **Export** in the More Actions drop-down list. Save the chart to a local folder.

Note for IE6 users

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Internet Explorer cannot download from .

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About Dashboards and Reports

A Dashboard displays a collection of charts, that is, data compiled from multiple points of interest in HTML, or saves the collection of reports with information for a specific period to PDF or Excel format.

Charts only display information on objects to which the current user has access, such as the programs the current user owns.

Dashboards provide the following functionality:

- Assign HTML Dashboards to display in the user's initial landing page, schedule the interval when the report data is updated, and publish the dashboard to other Portals, such as Salesforce and Sharepoint. Publishing the HTML dashboard allows others to see data and statistics for programs as well as entities as they are being evaluated. You can also run and display the dashboard from the Dashboard folder.
- Archive a dashboard to PDF, HTML, or PNG format. Saving the dashboard allows you to create a snapshot of information during a specific period. You can save PDF, HTML, or PNG versions locally or you can archive them in the RiskVision solution and point to the archived file from other portals.
- Export results to Excel.

The RiskVision solution provides a wide variety of system dashboards that are used for landing pages such as the Program Summary dashboard that displays on the **R6 Charts** tab of **Program** details page.

Chart Status

The **Chart Status** page displays information about charts in progress.

To cancel a chart, select it in the grid, and click Cancel.

About Report Templates

Report templates provide a base for new dashboards. The RiskVision application provides the following default templates:

Template Name	Description
Multiple Program - Entity Regulation Compliance Indicator	Shows the Indicator of the compliance level of this entity with respect to the regulation. This is applicable to the entities that have been tagged as applicable to that regulation. Only the key risks that have been tagged for this regulation are considered.
Multiple Program - Key Risk Regulation Compliance Indicator	Shows the Indicator of the compliance level of this key risk with respect to the regulation. This is applicable to the key risks that have been tagged as applicable to that regulation. Only the entities that have been tagged for this regulation are considered.
Multiple Program - Key Risks Entity Summary	Shows the trend of key risk results for all the entities in multiple programs. Any entities assigned via dynamic groups are also included.
Multiple Program - Key Risks Summary	Shows the trend of key risk results for the dynamic groups and entities in multiple programs. This is useful to drill-down on dynamic groups that are modeled to reflect organization hierarchies.
Policy Document - ControlObjective	Renders a Control Objective as a policy document.
Policy Document - ControlPolicy	Renders a Control Policy as a Policy document.
Policy Document - Group	Renders a Group of Policies as a Policy document.
Policy Document - Section	Renders a Group of Policies as a Policy document.
Single Program - Dynamic Group Key Risks Summary	For a given Key Risk Indicator and dynamic group pair, this dashboard shows the trend of key risk results for all the dynamic groups at the next level. This is useful to drill-down on dynamic groups that are modeled to reflect organization hierarchies.
Single Program - Entity Key Risk Indicator Value Trend	For a given Key Risk Indicator and entity pair, this dashboard shows the history of the values that have been entered.
Single Program - Entity Key Risk Summary	For a given Key Risk and entity pair, this dashboard shows the trend of key risk indicator results.
Single Program - Entity Regulation Compliance Indicator	Shows the Indicator of the compliance level of this entity with respect to the regulation. This is applicable to the entities that have been tagged as applicable to that regulation. Only the key risks that have been tagged for this regulation are considered.

Template Name	Description
Single Program - Key Risk Regulation Compliance Indicator	Shows the Indicator of the compliance level of this key risk with respect to the regulation. This is applicable to the key risks that have been tagged as applicable to that regulation. Only the entities that have been tagged for this regulation are considered.
Single Program - Key Risks Entity Summary	Shows the trend of key risk results for all the entities in the program. Any entities assigned via dynamic groups are also included.
Single Program - Key Risks Summary	Shows the trend of key risk results for the dynamic groups and entities in the program. This is useful to drill-down on dynamic groups that are modeled to reflect organization hierarchies.

About Dashboard Folders

Dashboard folders control access, as follows:

- **My Dashboard**. Current user can read, write, and modify dashboards in this folder.
- **Shared Dashboards.**
    - **System.** System Administrators can read, write and modify content. Typically contains Resolver provided content that only the system user can read and copy.
    - **Public.** Any system user can read, write, and modify dashboards in this folder.
- **Archived Dashboards.** Contains a PDF formatted file of a dashboard. PDF copies provide a snapshot for a particular time and date.
    - **My Archived Dashboards.** Contains a PDF formatted files of a dashboard the only the current user can access.
    - **Shared Archived Dashboards.** Contains PDF formatted files of a dashboard that only all the system users can access.

Configuring Column Dashboards

This section explains how to add and configure analytical data into easy-to-read dashboards for reporting purposes. Dashboards within the RiskVision solution can be configured to have multiple columns to display different kinds of charts and data. Dashboards are a good way to showcase existing charts to help summarize information such as the current state of compliance for an organization. With the RiskVision solution, it is easy to lay out the dashboards and make changes to the layout as needed. You can edit a dashboard and add or remove a chart from the dashboard using the Dashboards and Reports View and Dashboards and Reports Author permissions.

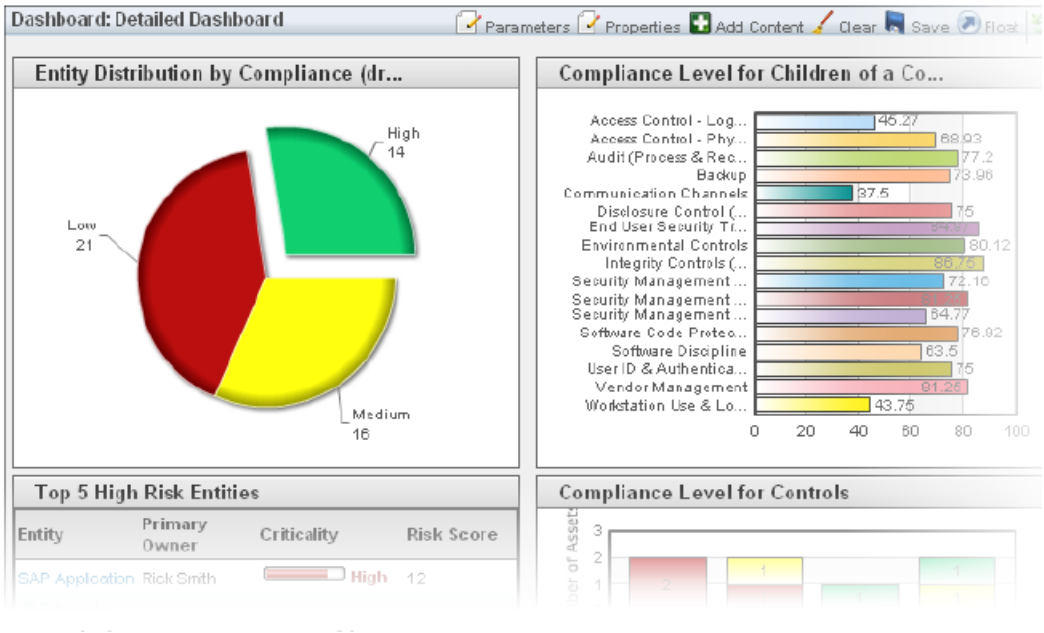
Adding Charts

A dashboard can contain any RiskVision solution chart. The chart must be defined before you can add it to a dashboard. However, each dashboard can run the chart with different parameters.

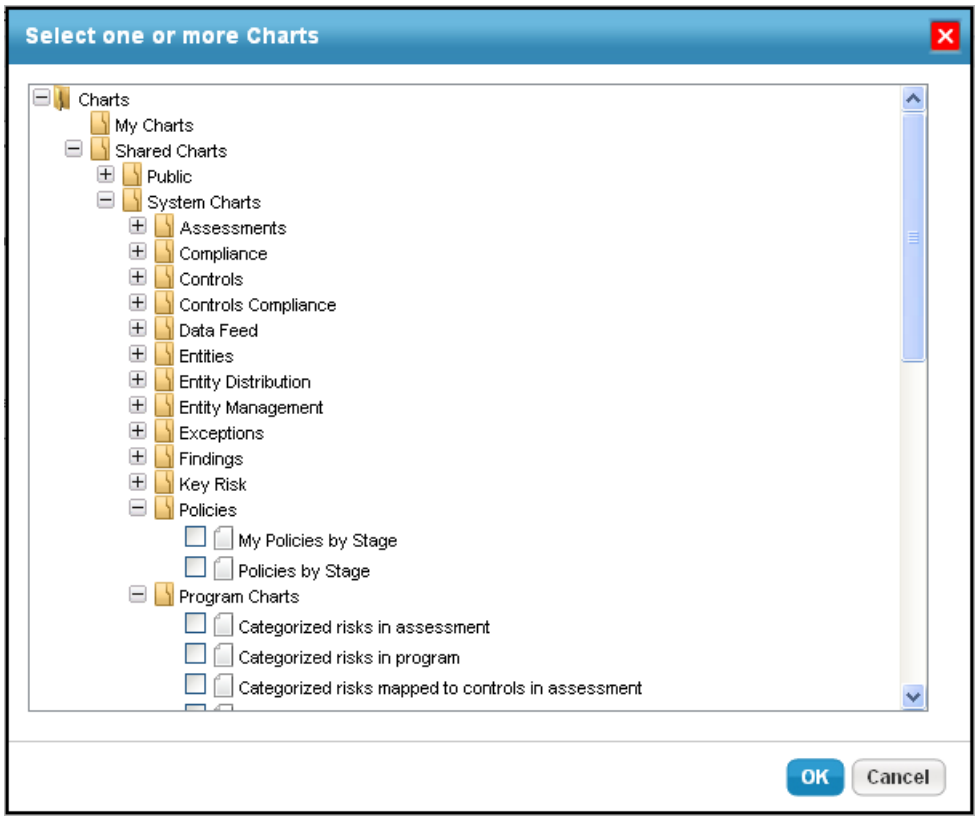
To add a chart:

1. Go to **Analytics > Dashboards and Reports**.
2. Locate the dashboard to which you want to add a chart, and open the details.
    - Expand the **Dashboard** groups in the navigation pane.
    - Select the group to display a list of dashboards.
    - Select the dashboard, and click **Details**.

If chart data is available, the chart runs and displays the results on the Dashboard Details page.



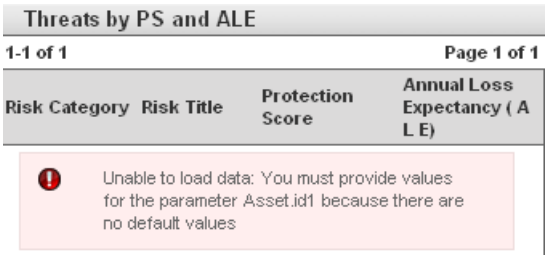
3. Click **Add Content**. The **Select one or more Charts** dialog appears.



4. Locate and select the charts you want to add.

5. Click **OK**.

The chart displays on the dashboard details page with the chart results if data is available and no parameters are required. Otherwise, the chart displays with a parameter error.



Setting The Chart Parameters

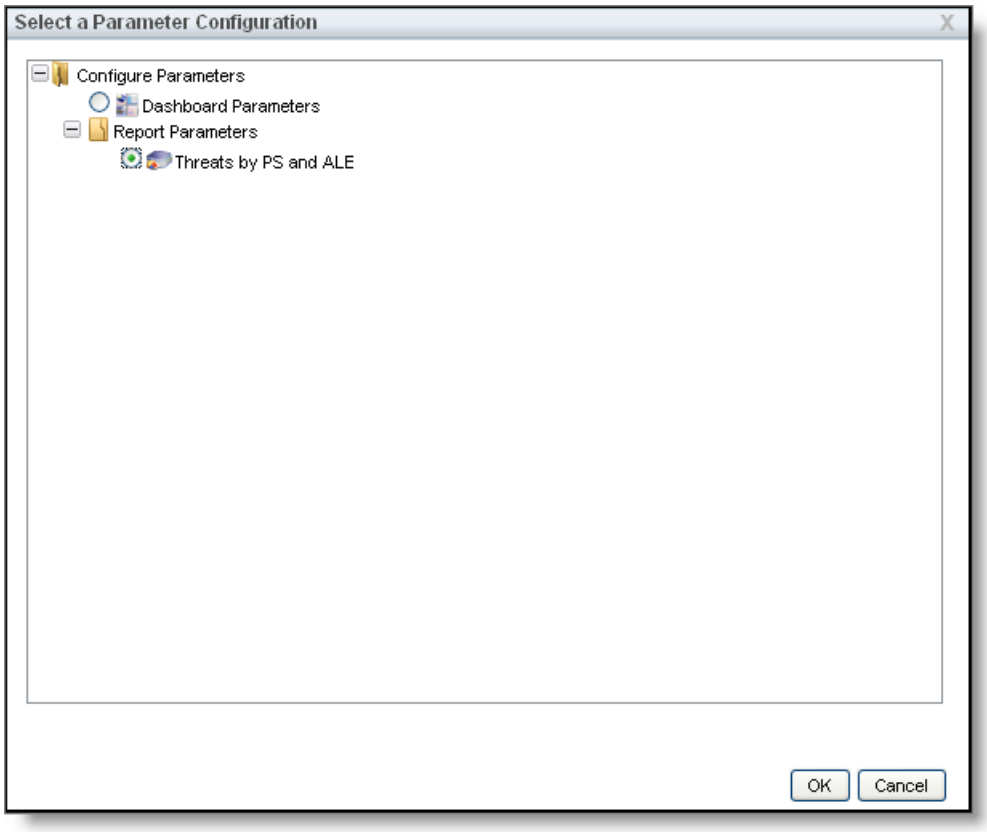
The chart parameters determine which objects, such as programs and entities, to run the dashboard chart against. The parameters apply to the dashboard only. You can either set all charts to use the same parameters or set the parameters for each chart.

To set up parameters:

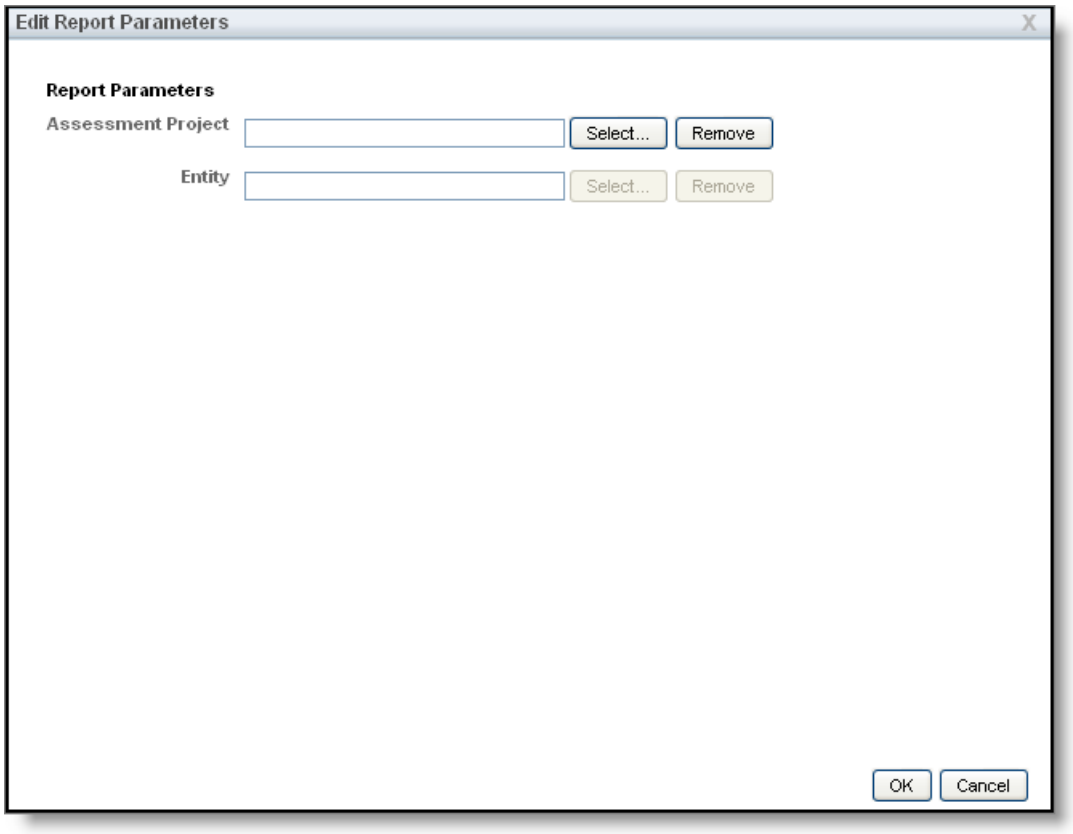
1. Go to **Analytics> Dashboards and Reports**.
2. Locate the dashboard to which you want to add a chart, and open the details.
    - Expand the **Dashboard** groups in the navigation pane.
    - Select the group to display a list of dashboards.
    - Select the dashboard, and click **Details**.

If chart data is available, the chart runs and displays the results on the dashboard details page.

3. Click **Parameters**. The **Select a Parameter Configuration** dialog appears.



4. Expand **Configure Parameters**, and select one of the following options:
    - **Dashboard Parameters**. To set similar parameters for all charts.
    - **Chart Parameters > report name**. To set different parameters for each chart.
5. Click **OK**. The **Edit Report Parameters** or **Edit Dashboard Parameters** dialog appears.



6. Select a program, select entity, and then click **OK**.

The dashboard displays the report results using the parameters that you have set.

Removing Charts From Dashboards

You can remove all charts from a dashboard. Clearing the charts creates a blank dashboard.

To clear charts:

1. Go to **Analytics > Dashboards and Reports.**
2. Locate the dashboard to which you want to add a chart, and open the details.
    - Expand the **Dashboard** groups in the navigation pane.
    - Select the group to display a list of dashboards.
    - Select the dashboard, and click **Details**.

If chart data is available, the chart runs and displays the results on the dashboard details page.

3. Click **Clear**. The dashboard displays blank.

Defining Reports with Excel Templates

The RiskVision solution supports simple column-based dashboards and HTML/Velocity template-based reports. You can also define custom reports.

Excel report templates created outside of RiskVision can be used as a report template. Additionally, RiskVision supports the creation of excel report templates to allow viewing and printing reports directly within Excel (or Excel Viewer).

The Excel-based custom report facility is designed to cleanly separate data presentation from data generation and to allow users to use the existing user interface for other types of reports.

An Excel-based report template is a normal Excel workbook or template. As such, all Excel features can be used, including macros and VB scripts. Currently, only Excel 97-2003 is supported. Typically, an Excel report template has one sheet with the charts and tables for the final report.

Note that tables, individual rows, columns, and cells in the report can be populated directly without using another data sheet. Also, data sheets can be hidden through Excel scroll-locking.

Depending on the complexity of the report, the template must have either a Properties sheet or a Velocity script.

Simple Template with a Properties sheet

- Allow independent reports only
- Allow single-valued parameters
- Allow fixed data destinations

Advanced Template with a Velocity Script

- Allow reports that depend on the results of other reports
- Allow calls to Java methods to get data for charts and tables
- Allow list-valued parameters
- Allow relative data destinations
- Allow control-flow structures (e.g., if-then-else and for each loop)

For more information, see Creating a simple report template or Creating an advanced report template.

Creating a Simple Report Template in Excel

For simple report-only dashboards, using a simple Properties worksheet in Excel is sufficient to provide all the necessary information for parameters, reports, and their data destinations.

Normally, such a Properties worksheet contains two sections, one for all parameters and one for reports.

Specifying Report Parameters

In the first section of the Properties worksheet, list the report parameters. For each parameter that you want the system to prompt for a value at runtime, you can specify the name, the label, the data type, and where the value must be placed in the dashboard.

The only mandatory property is the name, and it must be set first. All other properties are optional. If the label property is not specified, the name will be used as the default label. The valid data types are listed below and the default data type is String.

By default, the value of the parameter will not be shown in the dashboard.

- String
- Number
- Date
- Timestamp
- Entity
- Control
- Subcontrol
- Program
- Vulnerability
- Ticket
- DynamicGroup

Here is an example for date type parameter:

parameter1.name = reportDate

parameter1.label = Report Date

parameter1.type = Date

parameter1.value.target = Dashboard!$D$2

Specifying Reports

In the second section of the Properties worksheet, list the reports. For each report, specify the fully-qualified name and the data destination.

The data destinations are specified in the Excel format as follows:

1. A single cell:

SheetName!$ColumnName$RowNumber

2. A single row:

SheetName!$StartColumnName$RowNumber:$EndColumnName$RowNumber

3. A single unbounded column:

SheetName!$ColumnName

4. A single bounded column:

SheetName!$ColumnName$StartRowNumber:$ColumnName$EndRowNumber

5. An unbounded range:

SheetName!$StartColumnName:$EndColumnName

6. A bounded range:

SheetName!$StartColumnName$StartRowNumber:$EndColumnName$EndRowNumber

Report Examples

report1.name = /My Reports/Entity Distribution by Criticality

report1.target = DataSheet1!$A$1:$B$6

report2.name = /My Reports/Entities with Lowest 10 Compliance Scores

report2.target = Dashboard!$B$31:$E$40

report3.name = /My Reports/Entities with High Criticality

report3.target = DataSheet2!$A:$G

In the first example above (report1), the summary report will populate a bounded range in DataSheet1 that will be used to generate a pie chart or bar chart in the dashboard. Note that the first row of a data sheet is reserved for column headers and the actual data will start with the second row. In addition, eventhough normally there will be only 5 or 6 possible values for entity criticality, it is not necessary to use a bounded range.

In the second example above (report2), the 10-row table in the dashboard would be populated by the report directly. Note that the range does not include the row for the column headers because it does not start with the first row.

In the third example above (report3), the report will put data into an unbounded range in DataSheet2. The dashboard creator does not know how many entities have high criticality. You do not want to limit the number of entities shown. In this case, the dashboard creator could create a viewport (a table with a fixed size) in the dashboard and use a VBScript to page through the data in DataSheet2 interactively.

Understanding HTML Report Templates

To help explain custom HTML report templates, this topic introduces several examples of increasing sophistication that show how to utilize the Velocity template language in custom HTML code to produce custom RiskVision reports.

Example 1 explains the basics of creating a custom HTML report template and leads to the subsequent examples, which build on each other.

Overview

Users with sufficient privileges can create and modify HTML report templates. HTML reports can pull data from the RiskVision database in the form of data fields, tables, and charts. This is accomplished using embedded Velocity variables and language constructs. An HTML report template is a canonical HTML document with optional Velocity statements before, after, and embedded within the HTML. The HTML markup can be as advanced as XHTML strict or as simple as "quirks mode."

RiskVision limits the size of any HTML template to a fixed maximum, placing a limit on the amount of HTML text that can be entered. Velocity constructs such as loops can be more concise than plain HTML.

Report templates can be used with different data. Because understanding a set of charts takes time, the best practice to use the similar report for related data to facilitate consistency and comparability. A compliance report, for example, might be used for both Sarbanes-Oxley and PCI.

Chart attributes and the objects being reported on are both "parameters" for the report. System reports prompt for parameters every time the report is run, but user-defined reports remember their parameters and do not prompt after the first run. The Parameters links supports changing the parameters after the first run of a custom HTML report.

Report output can be exported as an HTML and loaded into an application such as Microsoft Word in order to produce an even-more polished report (with a cover page, headers and footers, and an index, perhaps).

See also

- Report Template Variables
- Reporting on RiskVision Objects

Configuring Report Templates

Resolver recommends basing your template on an existing template. Visit the Agiliance Customer Support portal for additional templates and details on template variables.

Creating A New Template

Create a new template for users to customize when setting up their own dashboards. Your user role must have the Report Template View and Report Template Manage permissions so that you can create, modify, or delete a report template.

To create a new template:

1. Go to **Analytics > Report Templates**.
2. Click **New**. A blank dashboard displays below the report template table.
3. Enter the general information:
    - **Name. Enter the display name that users select in the new dashboard dialog.**
    - **Description. Enter a summary that describes the template.**
4. Enter the content. You must use valid HTML and include the DTD and required dashboard parameters.
5. Click **Save**.

The template is now available from the new dashboard dialog.

Modifying A Template

To modify a template:

1. Go to **Analytics > ReportTemplates**.
2. Select the template, and click **Details**.
3. Click **Edit**.
4. Modify the general information and content.
5. Click **Save**.

The template is updated. The modified version is used to create new dashboards.

Creating Reports for Affected Entity Groups

When a user upgrades from a version of RiskVision below 9.0 to 9.0 or above, any custom groups will be deleted. In addition, the custom groups will not appear in a vulnerability's **Affected Entities** tab even after being created. In order to properly display a custom group, two R6 reports must be created for each new group: one for summary details, and one for drill down reports.

> R6 reports should only be created by a System Administrator. They can be viewed by anyone with Configure UI permissions.

Before You Begin

Before the R6 reports can be created, the user must be granted R6 permission.

> This only needs to be done once. You can skip these steps if you've already been granted R6 permission.

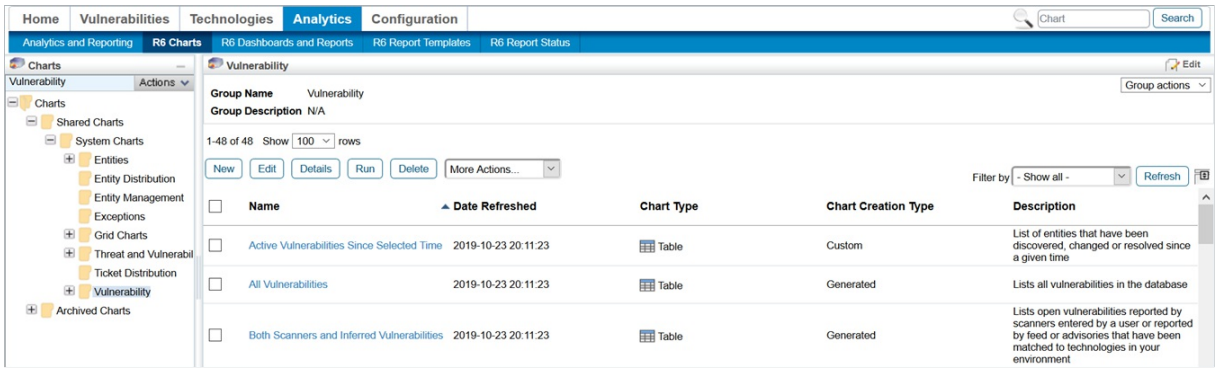
To grant R6 permission:

1. Navigate to and open the **agiliance.properties** file.
2. Set the following properties:
   - `allowNewReport=true`
   - `com.agiliance.dal.model.FusionReport.showHiddenReports=true`
   - `com.agiliance.dal.model.ObjectGroup.showHiddenGroups=true`
   - `com.agiliance.report.logReportQuery=true`
3. Restart the Tomcat service.

Report 1

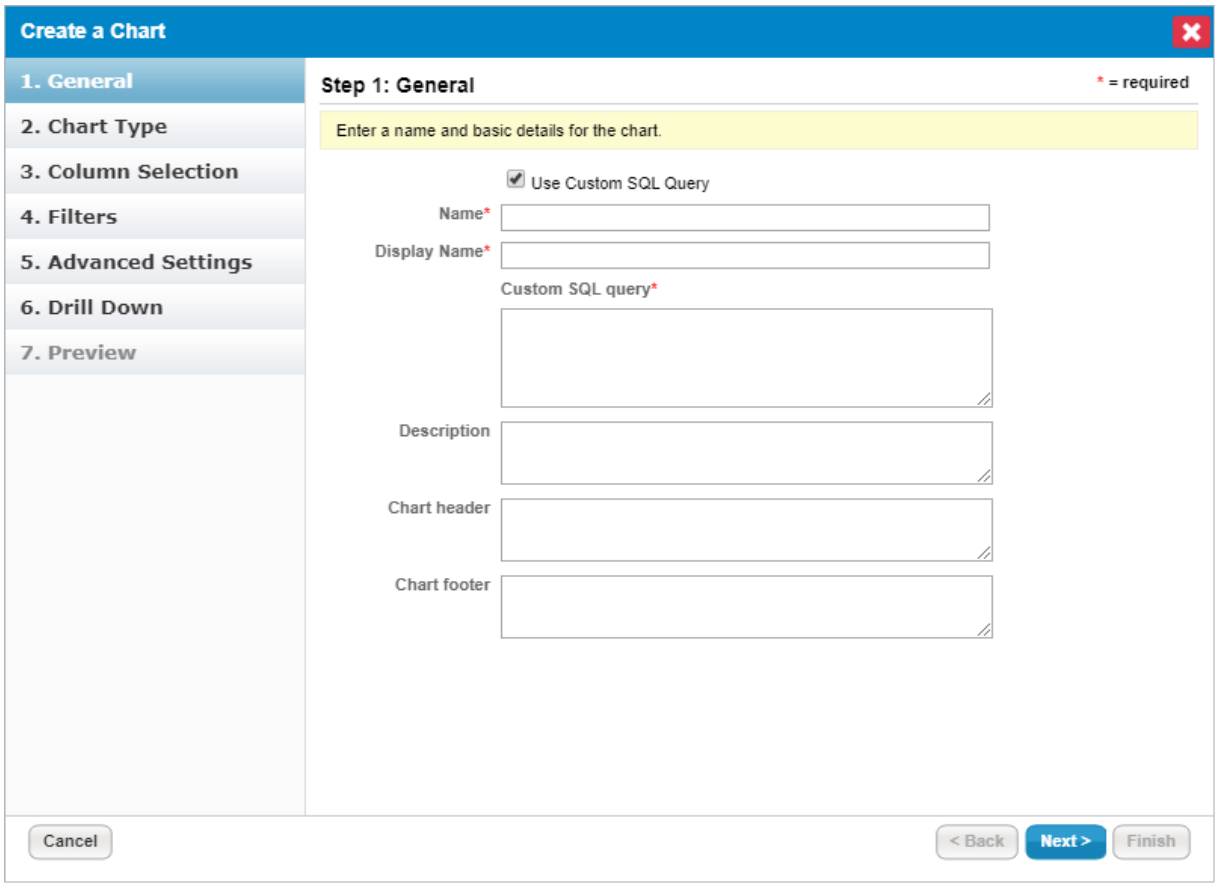
To create the summary details report:

1. In the **RiskVision Threat and Vulnerability Manager** application, navigate to **Analytics > R6 Charts**.
2. In the pane to the left, open the **Shared Charts > System Charts > Vulnerability**folder.



The Vulnerability folder of the R6 charts tab.

3. Click **New**. The **Create a Chart** dialog appears.



The Create a Chart dialog.

4. Click the **Use Custom SQL Query** checkbox.
5. Enter the name of the relevant custom group in the **Name** and **Display Name** fields.
6. Enter the following query in the **Custom SQL Query** field:

> The query you enter into this field must contain the relevant custom group's name and attributes. The following query is an example made for a group named **APPGR** that contains the **AppProduct**, **AppVendor**, **AppVersion**, **asset_subtype**, **asset_type**, and **owner_name** attributes. Replace these elements as necessary when writing your own query.

- SELECT t.APPGR_ID AS GROUP_ID,

  t.vulnerability_id,

  t.AppProduct,

  t.AppVendor,

  t.AppVersion,

  t.criticality,

  t.owner_name AS OWNER,

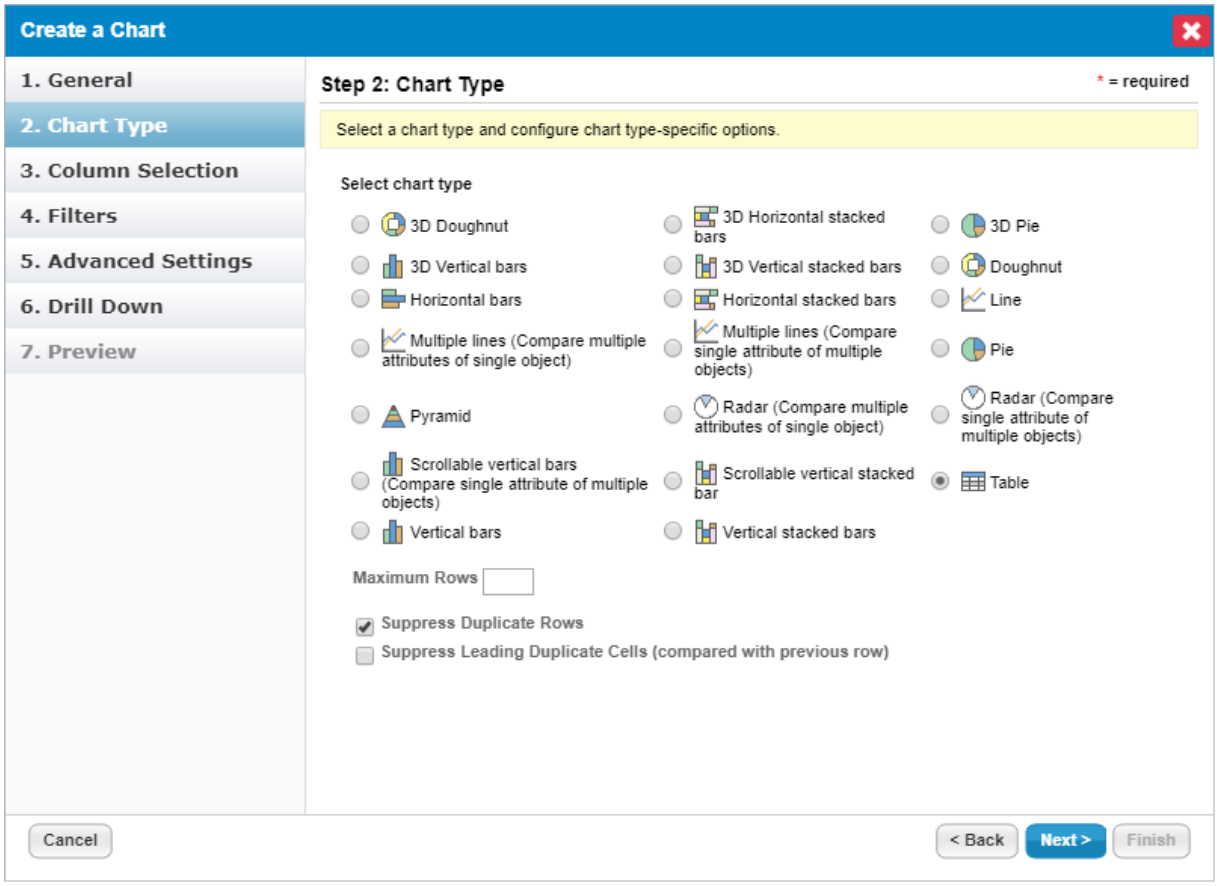
  MAX(t.risk_score) AS risk,

  COUNT(DISTINCT t.asset_id) affected_assets,

  COUNT(DISTINCT CASE WHEN t.scanner_reported = 1 THEN t.asset_id ELSE NULL END) scanner_reported,

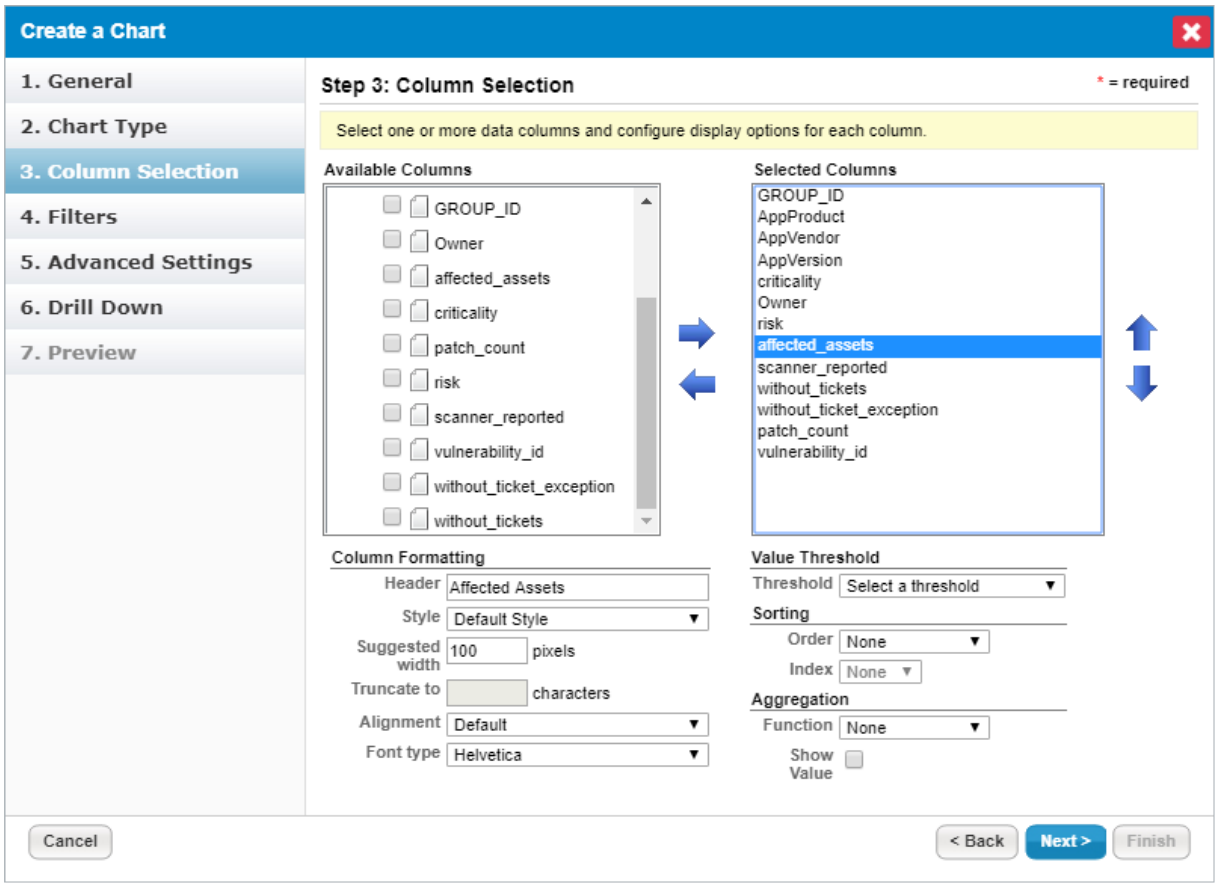
```
COUNT(DISTINCT CASE WHEN t.ticket_count = 0 THEN t.asset_id ELSE NULL END) AS without_tickets,

COUNT(DISTINCT CASE WHEN t.ticket_count = 0 AND t.exception_count = 0 THEN t.asset_id ELSE NULL END)
without_ticket_exception,

COUNT(DISTINCT CASE WHEN t.patch_count > 0 THEN t.asset_ID ELSE NULL END) patch_count

FROM agl_agrp_appgr_dtl t

where t.vulnerability_id = %CV_VULNERABILITY_ID%

GROUP BY t.APPGR_ID, t.vulnerability_id,t.AppProduct,t.AppVendor,t.AppVersion,t.criticality,t.owner_name
```

7. Click **Next**.
8. Select the **Table** chart type.
9. Click the **Suppress Duplicate Rows** checkbox.



The Chart Type tab of the Create a Chart dialog.

10. Click **Next**.
11. Move all columns to the **Selected Columns** list, ensuring the **GROUP_ID** column is at the top of the list.



The Column Selection tab of the Create a Chart dialog.

12. For each selected column, change the value of the **Header** field to be more user friendly. For example, change affected_assets to Affected Assets.

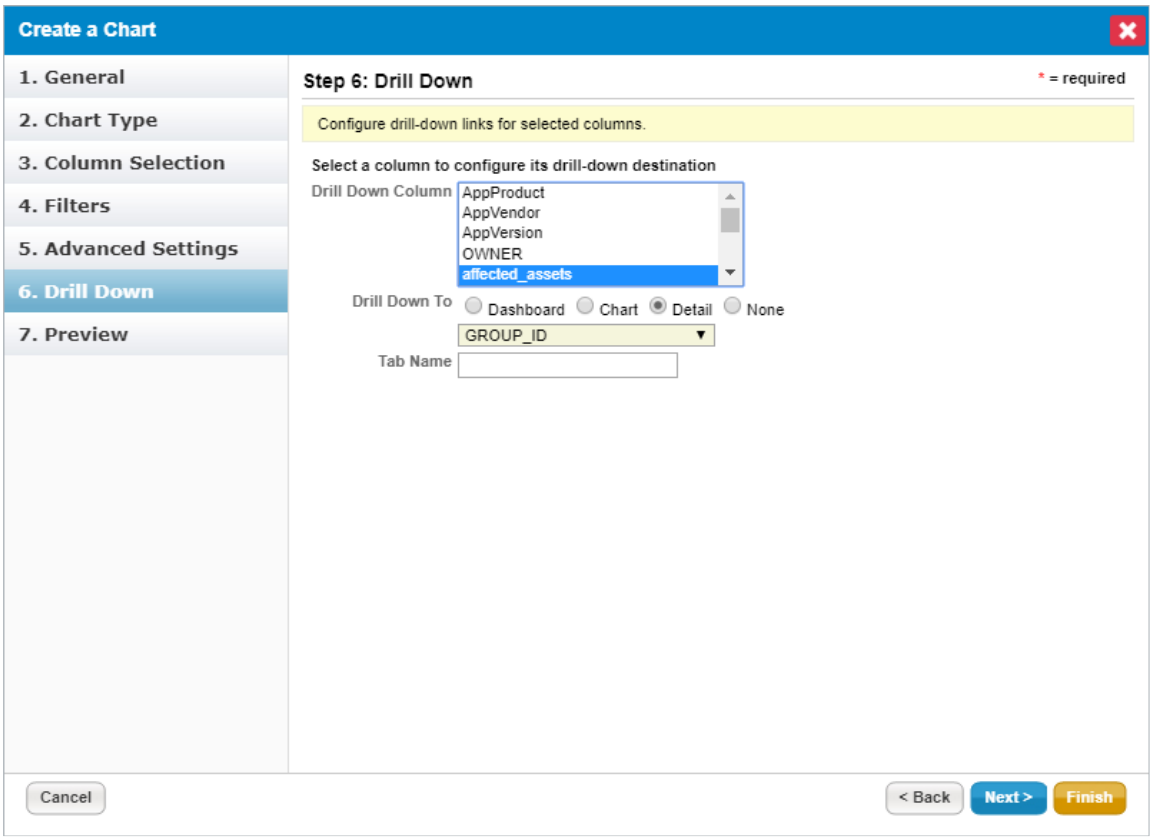
13. Click **Next**.

14. Click **Next** in the **Filters** tab.

15. Click **Next** in the **Advanced Settings** tab.

16. For each of the following drill down columns, select **Detail** in the **Drill Down To** field and select **GROUP_ID** from the dropdown list:

    - affected_assests
    - scanner_reported
    - without_ticket
    - without_ticket_exception
    - patch_count



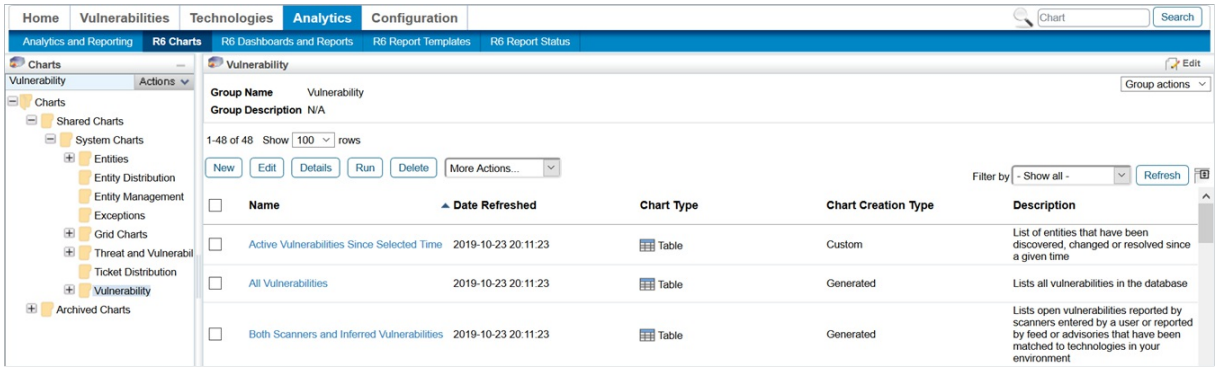
The Drill Down tab of the Create a Chart dialog.

17. Click **Finish**.

Report 2

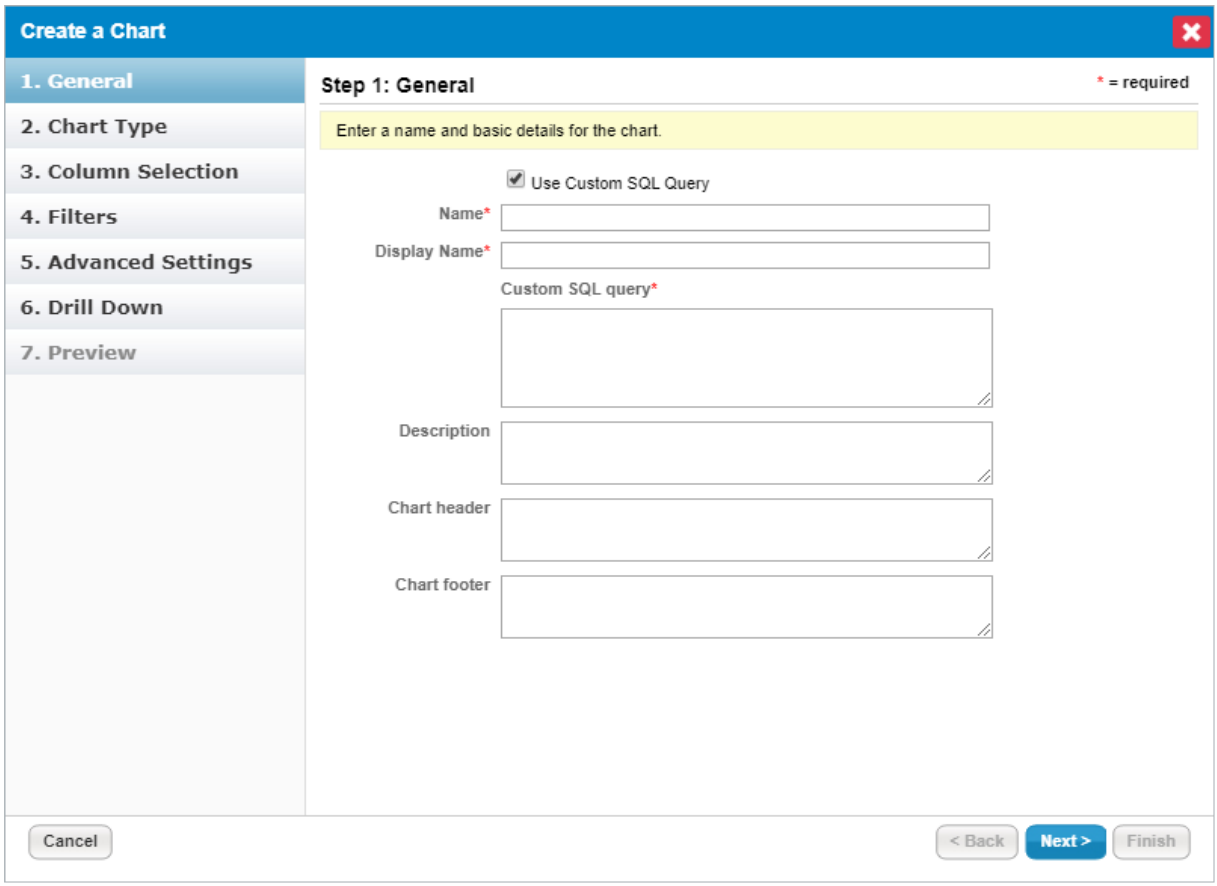
To create the drill down report:

1. In the **RiskVision Threat and Vulnerability Manager** application, navigate to **Analytics > R6 Charts**.
2. In the pane to the left, open the **Shared Charts > System Charts > Vulnerability**folder.



The Vulnerability folder of the R6 charts tab.

3. Click **New**. The **Create a Chart** dialog appears.



The Create a Chart dialog.

4. Click the **Use Custom SQL Query** checkbox.
5. Enter the name of the custom group followed by "_detail" (e.g. APPGR_detail) in the **Name** and **Display Name** fields.
6. Enter the following query in the **Custom SQL Query** field:

> The following query can be used directly by changing the table name (e.g. agl_agrp_appgr_d) to match the group name.

- SELECT DISTINCT t.asset_id AS ASSET_ID,

  a.asset_type AS ICON,

  a.name AS NAME,

  a.asset_type AS ASSETTYPE,

  a.asset_subtype AS ASSETSUBTYPE,

  t.criticality AS CRITICALITY,

  t.owner_name AS OWNERNAME,

  a.description AS DESCRIPTION,

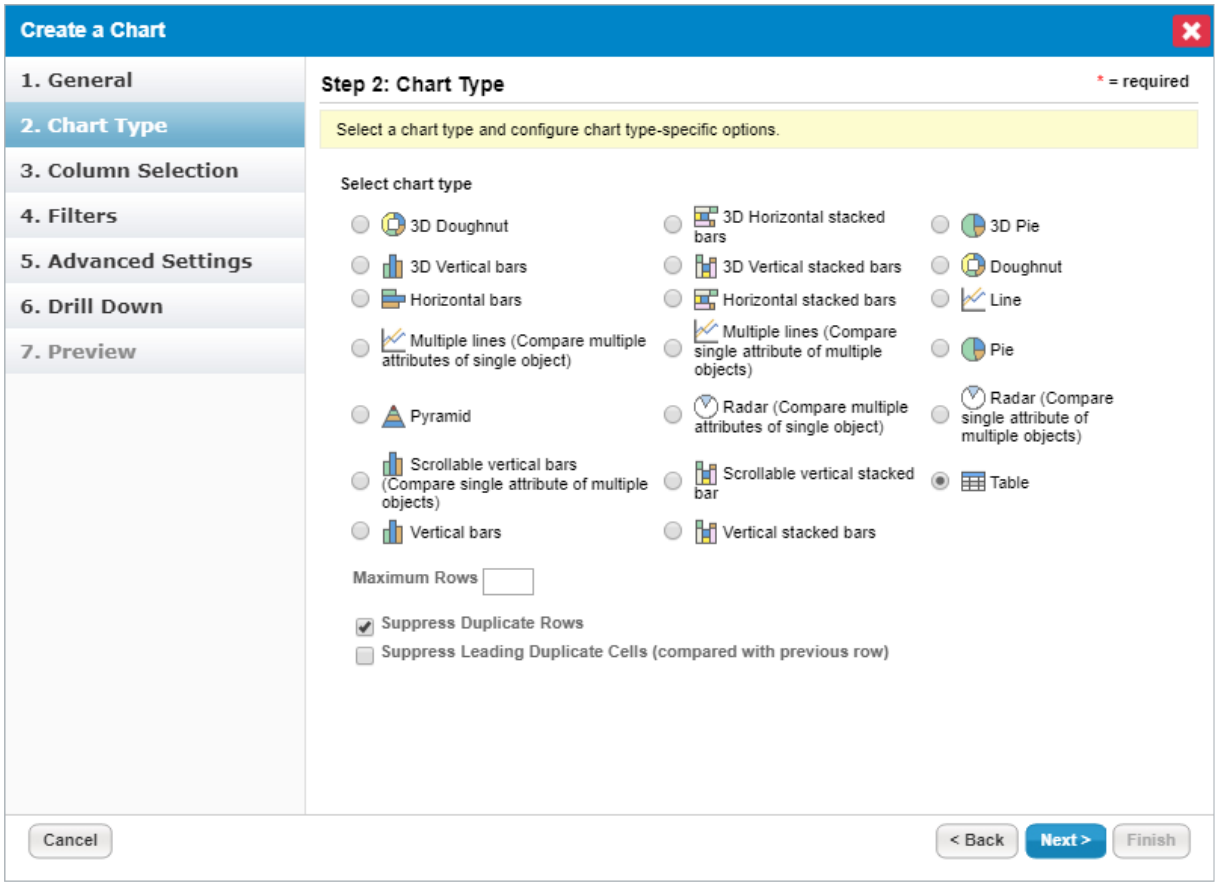
  t.ticket_count AS ticket,

  t.patch_status AS patchstatus,

  t.resolve_status AS resolvestatus,

```
t.Appgr_ID,

t.ticket_count,

t.exception_count,

t.patch_count,

t.scanner_reported,

t.asset_to_vulnerability_id

FROM agl_agrp_appgr_dtl t

INNER JOIN agl_asset a ON a.asset_id = t.asset_id

where t.Appgr_ID IN (%CV_GROUP_ID%)
```

7. Click **Next**.
8. Select the **Table** chart type.
9. Click the **Suppress Duplicate Rows** checkbox.



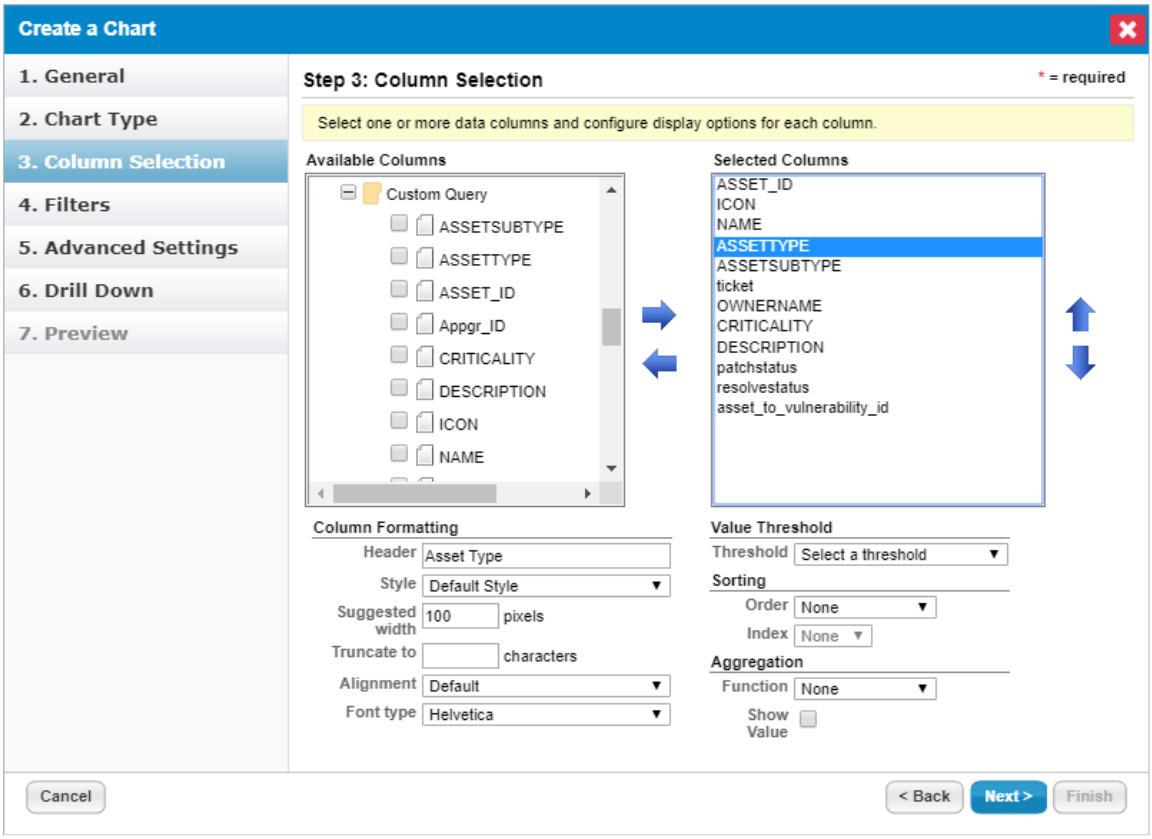
The Chart Type tab of the Create a Chart dialog.

10. Click **Next**.
11. Move the following columns from the **Custom Query** folder to the **Selected Columns** list and ensure that they are in the following order:

> If any of the below columns are not available, they can be ignored as long as the general sequence of the list is adhered to.

- ASSET_ID

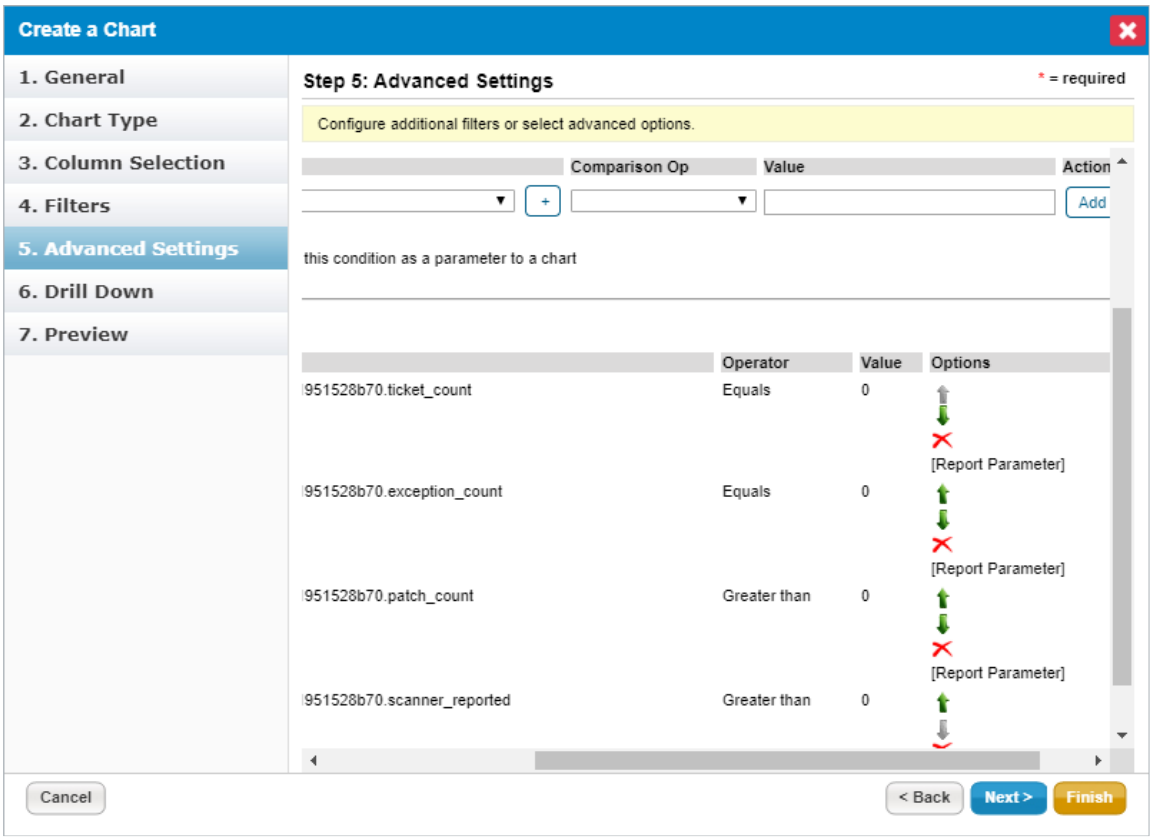
- ICON
- NAME
- ASSETTYPE
- ASSETSUBTYPE
- ticket
- OWNERNAME
- CRITICALITY
- DESCRIPTION
- patchstatus
- resolvestatus
- asset_to_vulnerability_id



The Column Selection tab of the Create a Chart dialog.

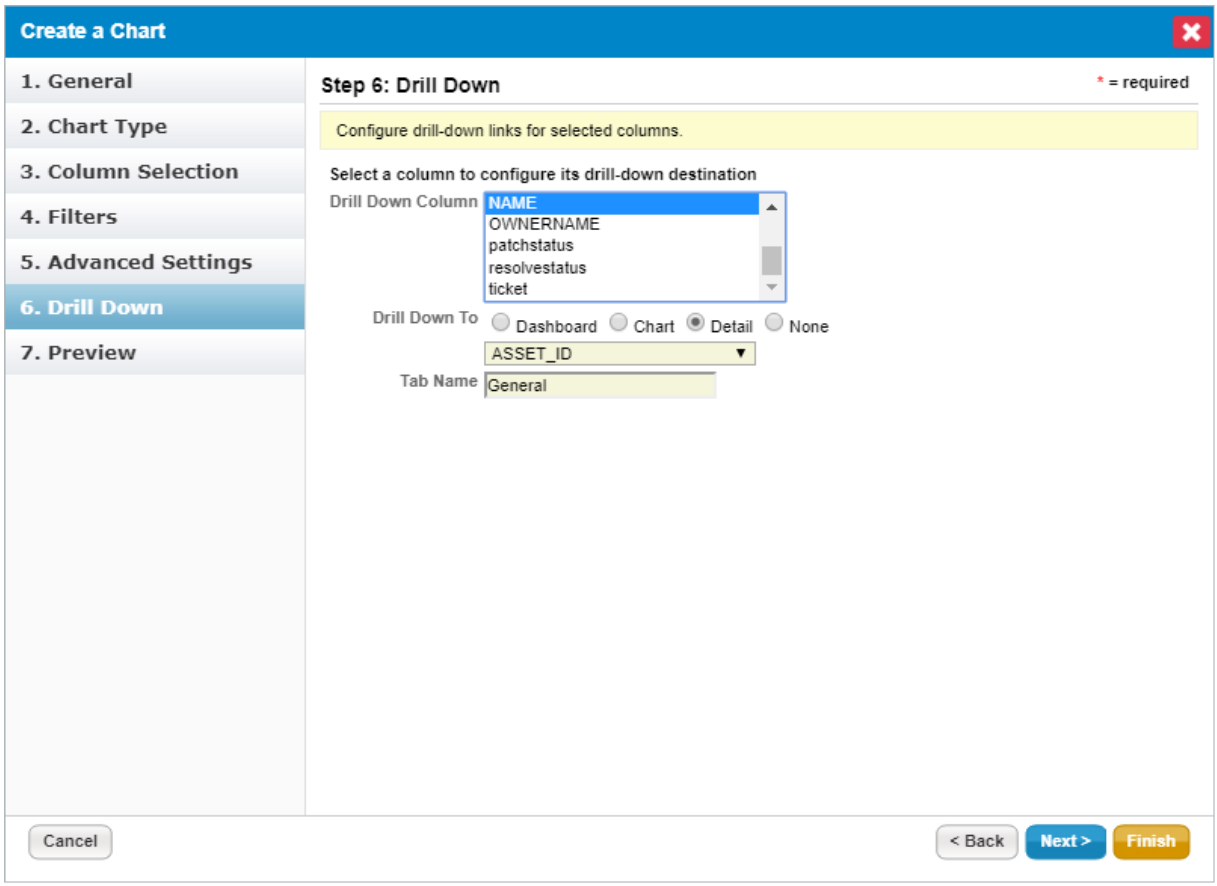
12. For each selected column, change the value of the **Header** field to be more user friendly. For example, change ASSETTYPE to Asset Type.
13. Click **Next**.
14. Click **Next** in the **Filters** tab.
15. Create the following conditions and click the **Use this condition as a parameter to a chart** checkbox.

    - Custom Query.ticket_count equals 0
    - Custom Query.exception_count equals 0
    - Custom Query.patch_count greater than 0
    - Custom Query.scanner_reported greater than 0



The Advanced Settings tab of the Create a Chart dialog.

16. Click **Next**.
17. For each of the following drill down columns, select **Detail** in the **Drill Down To** field and select the listed option from the dropdown list:
    - Name: Asset_ID
    - resolvestatus: asset_to_vulnerability_id
18. For each of the above drill down columns, enter **General** in the **Tab Name** field.



The Drill Down tab of the Create a Chart dialog.

19. Click **Finish**.
20. Logout of RiskVision and log back in.
21. In the **Threat and Vulnerability Manager** application, navigate to the Affected Assets tab of any vulnerability.
22. Select the freshly created group.

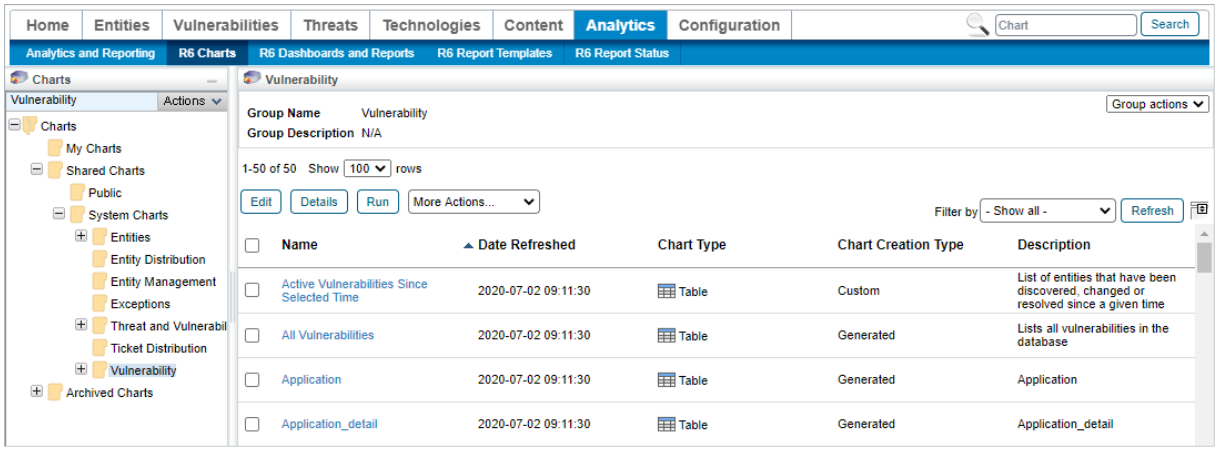
Enable Total Risk Scores of Custom Groups

Custom groups of vulnerabilities will have their own Vulnerability Risk Score. If you have created any custom groups, you will need to follow the below steps to properly display the group's aggregated vulnerability risk scores in the **Affected Entities** tab:

> In order to complete the below steps, the user must first have the R6 Report License enabled.

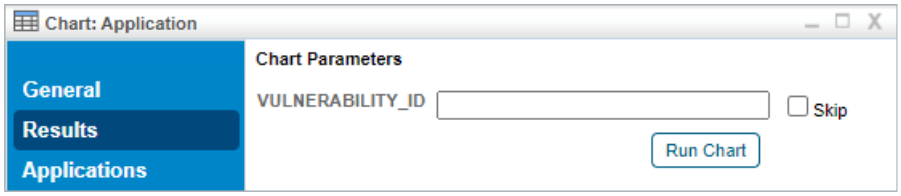
To display a custom group's total risk score:

1. Navigate to and open the **%AGILIANCE_HOME%\config\agiliance.properties** file.
2. Enable the below properties:
   - `allowNewReport=true`
   - `com.agiliance.dal.model.FusionReport.showHiddenReports=true`
   - `com.agiliance.dal.model.ObjectGroup.showHiddenGroups=true`
   - `com.agiliance.report.logReportQuery=true`
3. Log into RiskVision as a Sysadmin.
4. In the **Threat & Vulnerability Manager** application, navigate to **Analytics** > **R6 Charts**.
5. Click the **Vulnerability** folder in the navigation tree to the left.



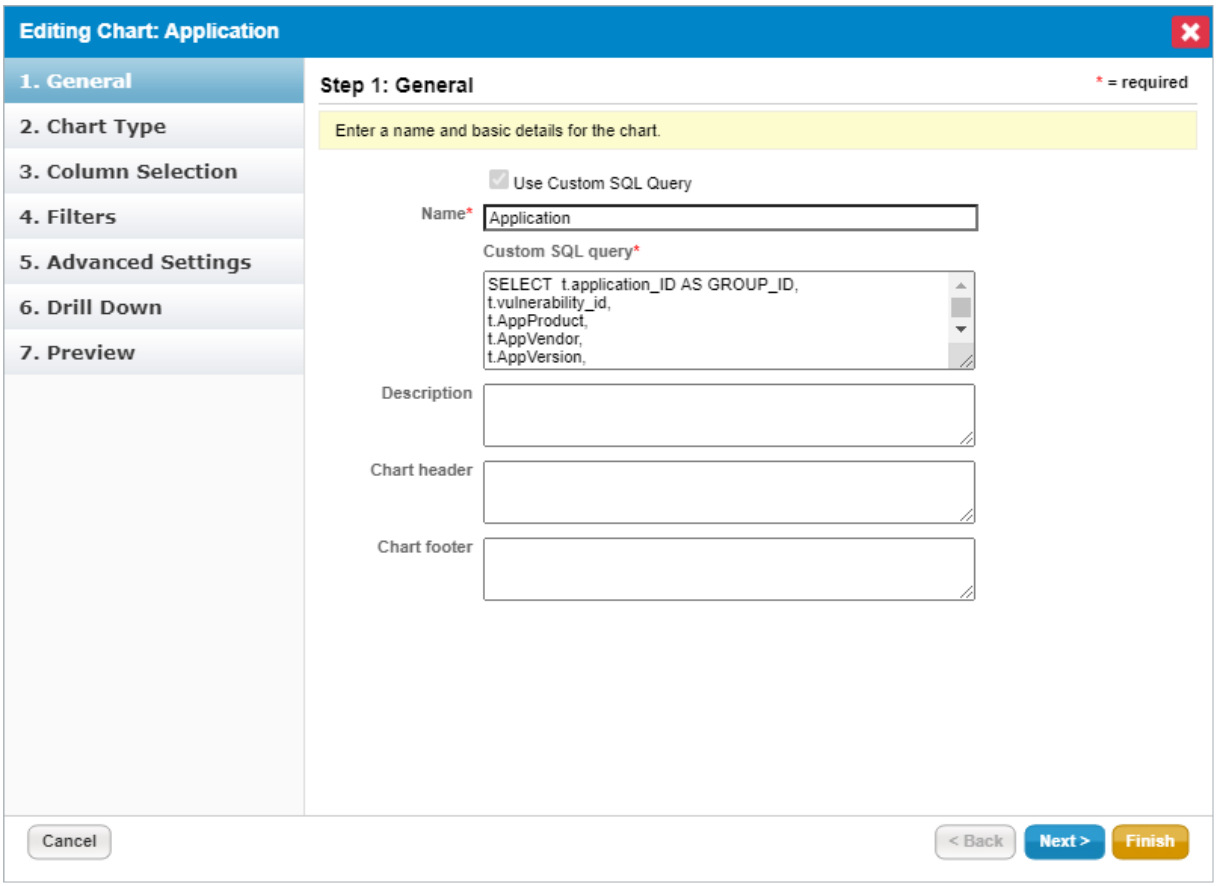
The Vulnerability folder of the R6 Charts section.

6. Click the custom group that is not displaying the total risk score.



A custom group's Details page.

7. Navigate to the **General** tab and click **Edit**.



The Editing Chart dialogue.

8. In the **Custom SQL Query** field, change the **MAX(t.risk_score)** query to read **ROUND(SUM(t.risk_score),2)**.

9. Click **Finish**.

Report Template Variables

Report templates are HTML files with Velocity template language (VTL) statements embedded. Velocity statements look like #set($var = value), or #if ($var >= 34). Velocity falls under the Apache organization. For more information, visit velocity.apache.org.

The Velocity template language provides access to key RiskVision solution objects, including those described below. For examples of Dashboard Templates, see Creating an Advanced Report Template.

$dashboardContext

void

bindSavedParameterValues()

Dashboard

getDashboard()

DashboardParameters

getDashboardParameters()

void

initReports(

List report URIs)

A dashboard template must call initReports if the dashboard has dependent reports.

void

loadObject(

String className)

boolean

isPreprocessing()

boolean

isRendering() – true if not preprocessing

void

saveParameters()

void

setDashboardParameters(

Map

String> parms,

Map

String> reportParms)

void

setParameter(

String key,

[String logicalReportId, - optional

String pname] - optional

Object val)

void

setPreprocessing(

boolean value)

void

setRendering(

boolean value)

$dashboardParameters

void

addDashboardReport(

String URL,

FusionReport report,

DashboardContext context)

DashboardParameterInstance

addParameter(

String name,

String label

[String type] - optional

[boolean isList] - optional

[String filter] - optional

)

Types are: String, Number, Date, Timestamp, Entity, Control, Subcontrol, Program, Vulnerability, Ticket, or DynamicGroup.

Entity

getEntity(

String key,

String displayName)

List

getEntities(

String key,

String displayName)

PolicySet

getControl(

String key,

String displayName)

List

getControls(

String key,

String displayName)

DashboardReport

getDashboardReport(

String URL)

Date

getDate(

String key,

String displayName)

String

getDateStr(

String key,

String displayName)

VirtualGroupInstance

getDynamicGroup(

String key,

String displayName)

List

getDynamicGroups(

String key,

String displayName)

Object

getParameterValue(

String name)

AuditProject

getProject(

String key,

String displayName

[, filter] - optional

)

List

getProjects(

String key,

String displayName

[, filter] - optional

)

DashboardReport

getReport(

String id)

String

getReport(

String URL,

String size

[, String logicalReportId] - optional

)

String

getReportLookupKey(

String URL,

String logicalReportId)

DashboardReport

getReportByUrlandLogicalReportId(

String URL,

String logicalReportId)

Policy

getSubcontrol(

String key,

String displayName)

List

getSubcontrols(

String key,

String displayName)

Ticket

getTicket(

String key,

String displayName)

List

getTickets(

String key,

String displayName)

String

getTimestamp(

String key,

String displayName)

Vulnerability

getVulnerability(

String key,

String displayName)

List

getVulnerabilities(

String key,

String displayName)

void

setControl(

String URL,

String key,

[String logicalReportId,] - optional

PolicySet value)

void

setVulnerability(

String URL,

String key,

[String logicalReportId,] - optional

Vulnerability value)

$dashboardProcessor

String

getAbortOnFirstReportError()

DashboardContext

getDashboardContext()

int

getMaxRows()

FusionReport

getReport(

String reportURI)

List>

getReportData(

String reportURI,

Map

String> parms,

Integer maxRows)

void

setMaxRows(

int max)

void

setAbortOnFirstReportError(

String actionOnReportError)

Other Objects

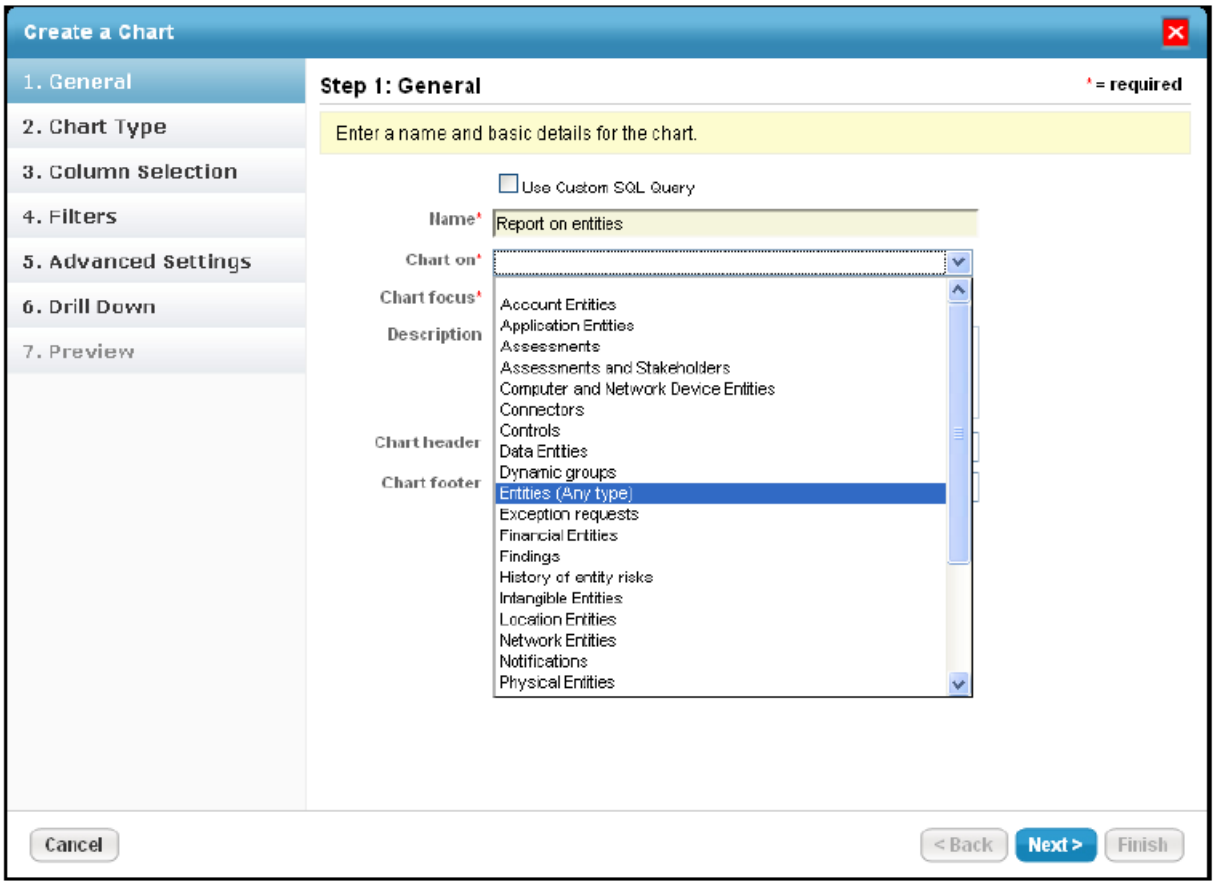
Other system objects can be requested using the dashboard methods described here, including:

- Entity (that is, entity)
- AuditProject (that is, assessment program)
- DashboardReport
- Object
- Policy
- PolicySet
- Ticket
- VirtualGroupInstance (that is, dynamic group)
- Vulnerability

These objects typically have a.getTitle() method and a.getDescription() method which provide sufficient information about the object for dashboard purposes.

Reporting On Riskvision Objects

The chart wizard can be used to report on various objects. The RiskVision solution ships with a number of reportable objects. These objects are shown in the Chart drop-down list, available on the General wizard page of the Create a Chart wizard.

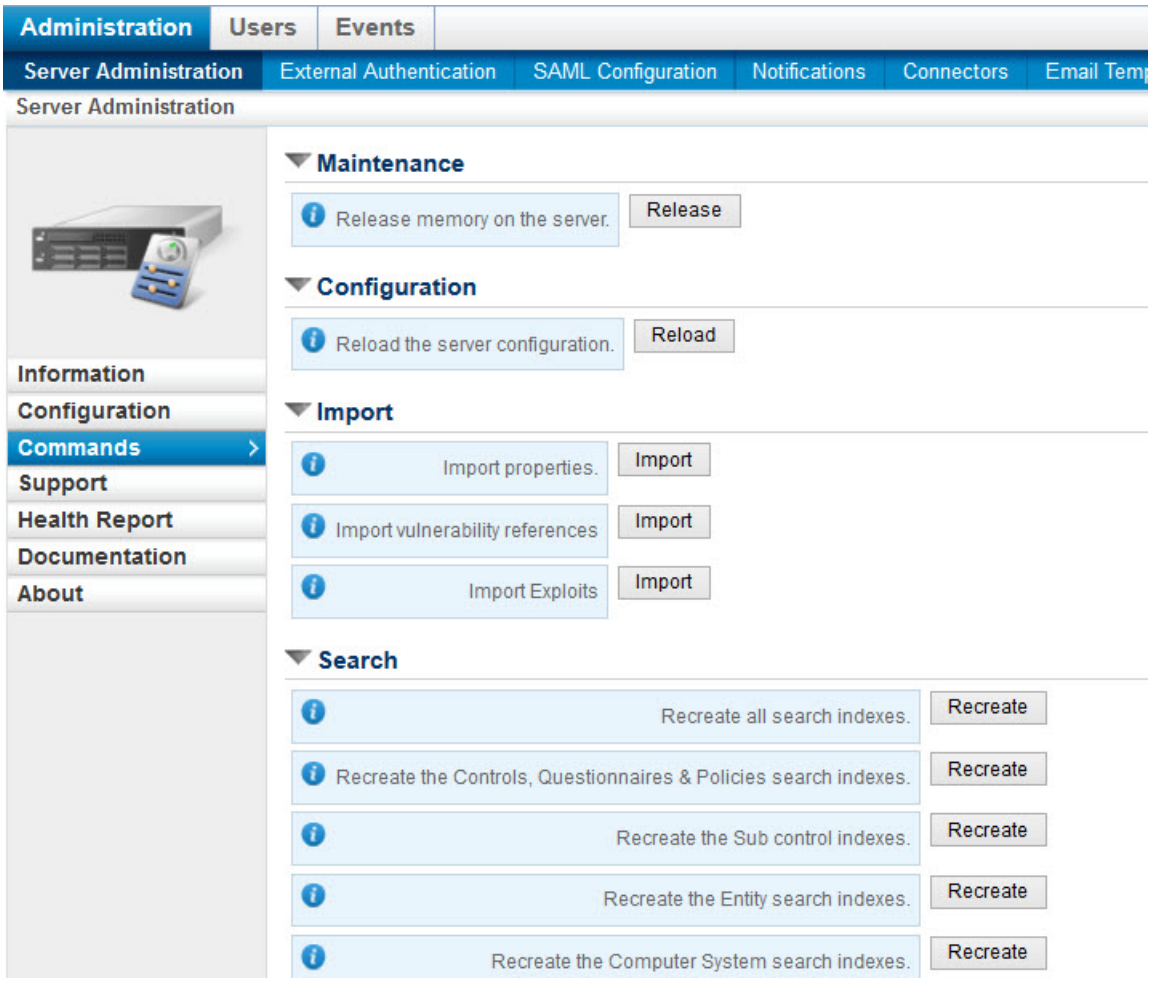


You can define additional custom objects and add them to the list of reportable objects. The new custom objects will show up in the**Chart on**drop-down list to be used to create new reports.

The chart wizard is driven by a set of configuration files, including:

- `ReportViews.xml`
- `ReportSummaryTables.xml`
- `ReportAttributes.xml`
- `ReportJoinConditions.xml`
- `ReportWizardOptions.xml`

The default versions of these files are deployed in the web deployment folder under `WEB-INF\classes`. Do not modify these files because they are replaced every time a new version of the software is installed. To add customizations, create files with the same name in the `%AGILIANCE_HOME%\config` directory. Once the customizations are deployed, there are two ways for the server to pick the customizations. Oneway is if you stop and start the server customization files will be reloaded . The other way is to go to the "Administration" area, choose the "Commands" tab, and click the **Reload** button in the configuration section.



Now, let us review each of the configuration files.

ReportViews.xml

All reportable objects that are built as database views are defined in this file. In this file, users can define a view name, define a display name, provide a detailed description, and an SQL query to build the view. For example, if the users want to report on archived assessments, they could create a view by using the SQL:

```
SELECT a.entity_id,
 a.name ,
 a.organization ,
 rap.compliance_score,
 rap.risk_score ,
 rap.end_date
FROM agl_entity a
 INNER JOIN agl_raproject rap
 ON rap.entity_id = a.entity_id
WHERE rap.archived =1;
```

Now that you have the SQL, you can make an entry in ReportViews.xml. If this is the only view in the customized ReportViews.xml, the content will look like this.

```
```

This view is used for creating reports on archived assessments.

]]>

SELECT a.entity_id,

a.name ,

a.organization ,

rap.compliance_score,

rap.risk_score ,

rap.end_date

FROM agl_entity a

INNER JOIN agl_raproject rap

ON rap.entity_id = a.entity_id

WHERE rap.archived =1

]]>

ReportSummaryTables.xml

All reportable objects that are built as summary tables in the database are defined in this file. In this file, you can define a summary table name, define a display name, give a detailed description, specify the SQL query that is used to build the summary table, and define indexes on the summary table.

Summary tables are similar to views but with important differences:

- The data retrieved using views is the latest data in the database. The summary table, therefore, is current when it is built, but does not reflect changes made since that time. The summary tables in RiskVision are updated by a scheduled job named “Report Summary Builder”. By default, this scheduled job runs once a day.
- The reports that are based on summary tables run faster than the reports based on views.

If you want to build a summary table with the SQL that is the same as the one used to build the view in the previous example, the content will look like this (assuming there is only one summary table in the file):

```
< Description >

This summary table is used for creating reports on archived assessments.
]]>

SELECT a.entity_id,
  a.name ,
  a.organization ,
   rap.compliance_score,
   rap.risk_score ,
  rap.end_date
FROM agl_entity a
  INNER JOIN agl_raproject rap
   ON rap.entity_id = a.entity_id
WHERE rap.archived =1
   ]]>

   CREATE INDEX aglx_archived_assessments_name on agls_archived_assessments (name)
```

ReportAttributes.xml

This configuration file contains a list of all the attributes of objects that are available for reporting. When a new reportable object (view or summary table) is created, the reportable attributes of that object have to be listed in this file. Continuing with the previous example, the view or summary tables expose six columns. They are `entity_id, name, organization, compliance_score, risk_score` and `end_date`. If `ReportAttributes.xml` will look like this (assuming that these are the only attributes defined):

Note that you have defined a group of attributes that correspond to the columns in the newly-defined reportable object. This group of attributes can be referred later by the group name.

ReportJoinConditions.xml

Once you have created a reportable object (view or summary table) and listed the attributes in ReportAttributes.xml, you are ready to report on the object. But in most reports, you will want to include additional attributes in addition to the attributes of the newly-created reportable object. This means that you need to define a way to associate other objects with this newly-created reportable object. In SQL terminology, you need to define join conditions. In the reportable object that you created in the previous examples, you might have noticed that you also had an entity_idcolumn that you did not add to the ReportAttributes.xmlfile. Use this column to connect the new reportable object with the entity object. If you assume that this is the only join defined in ReportAttributes.xmlfile, the content would look like this.

```
INNER JOIN agl_entity %2% ON %2%.entity_id = %1%.entity_id
```

In the xml, you have defined a new join condition that can connect the newly created reportable object with to the agl_entity table. The join condition is identified by a key which is made up of the table names in lower case and separated by a comma. Please note that there is a single space after the comma. The actual join condition is a SQL like join clause with variables that are replaced at run time with the actual table aliases. The following is a list of columns that are most commonly used to connect to other tables.

Column Name	Table/Object Name	Table Name	Report Attributes Group Name
entity_id	Entity/Entity Table	agl_entity	Entity
raproject_id	Assessment	agl_raproject	RAProject
auditproject_id	Assessment Program	agl_auditproject	AuditProject
policyset_id	Controls, Policies, Questionnaires, etc.	agl_policyset	PolicySet
vulnerability_id	Vulnerabilities	agl_vulnerability	Vulnerability

ReportWizardOptions.xml

You have defined a new reportable object, attributes of that object, and how you can connect this object with other objects. You are now ready to use it in the report wizard.

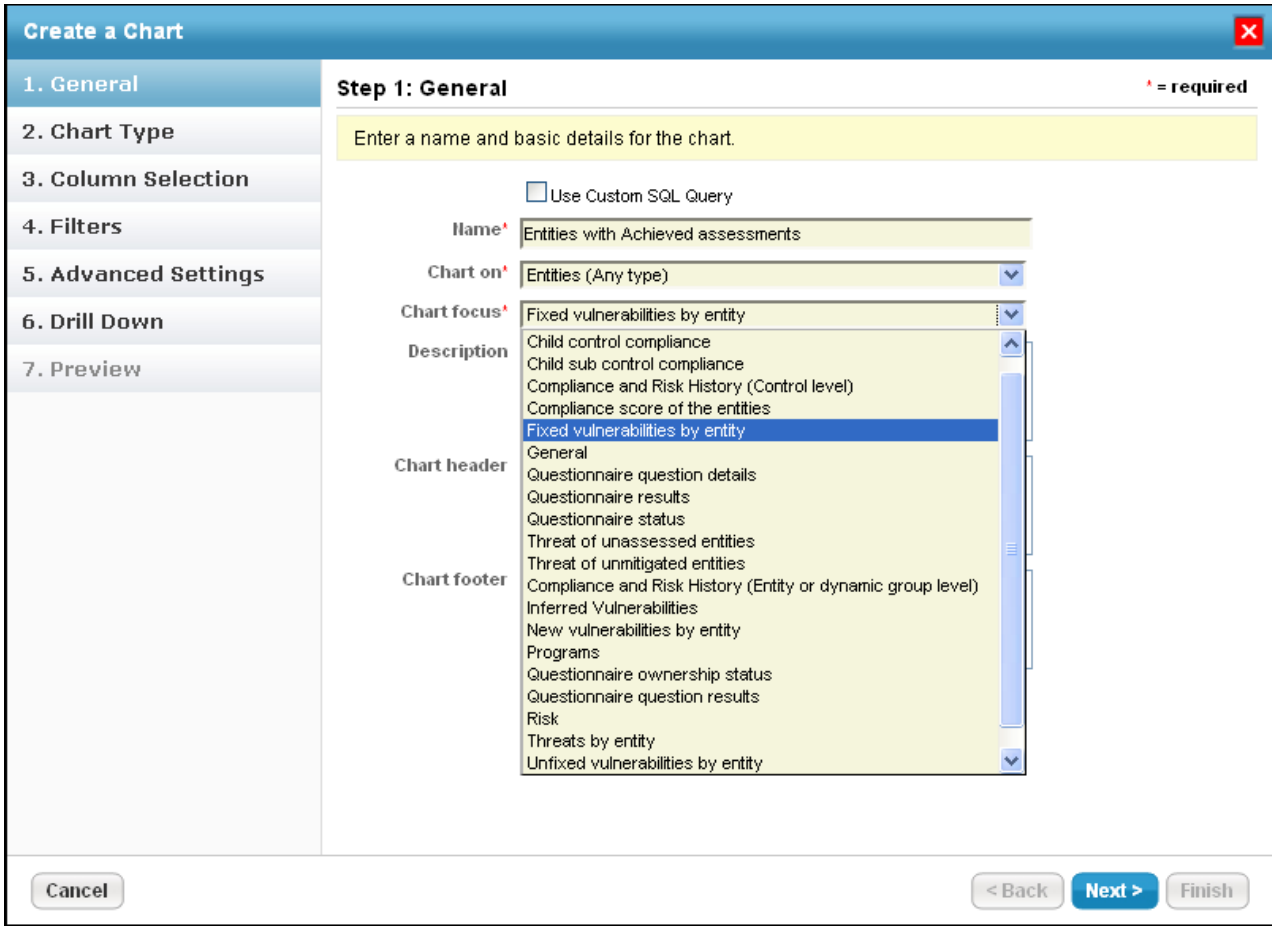
Let's say that you want to configure the wizard so that when the user reports on "Entities" and focuses on "Archived Assessments," they can use the newly-created reportable object. Assuming that only these customizations are in the `ReportWizardOptions.xml`, the file content would look like this:

From the above example, you can see that you have defined a report on "Entity" and report focus "ArchivedAssessments" (notice that the display names shown in the user interface are different). For a combination of "report on" and "report focus," you have defined the report attributes from groups "Entity" (available by default) and "ArchivedAssessment" (defined by), based on the newly-created reportable object. Users can choose attributes from either group. Since you have defined the join condition between `agl_entity` and `aglv_archived_assessments`, the server can use that information to create an SQL query joining the two tables and return columns from both the tables.

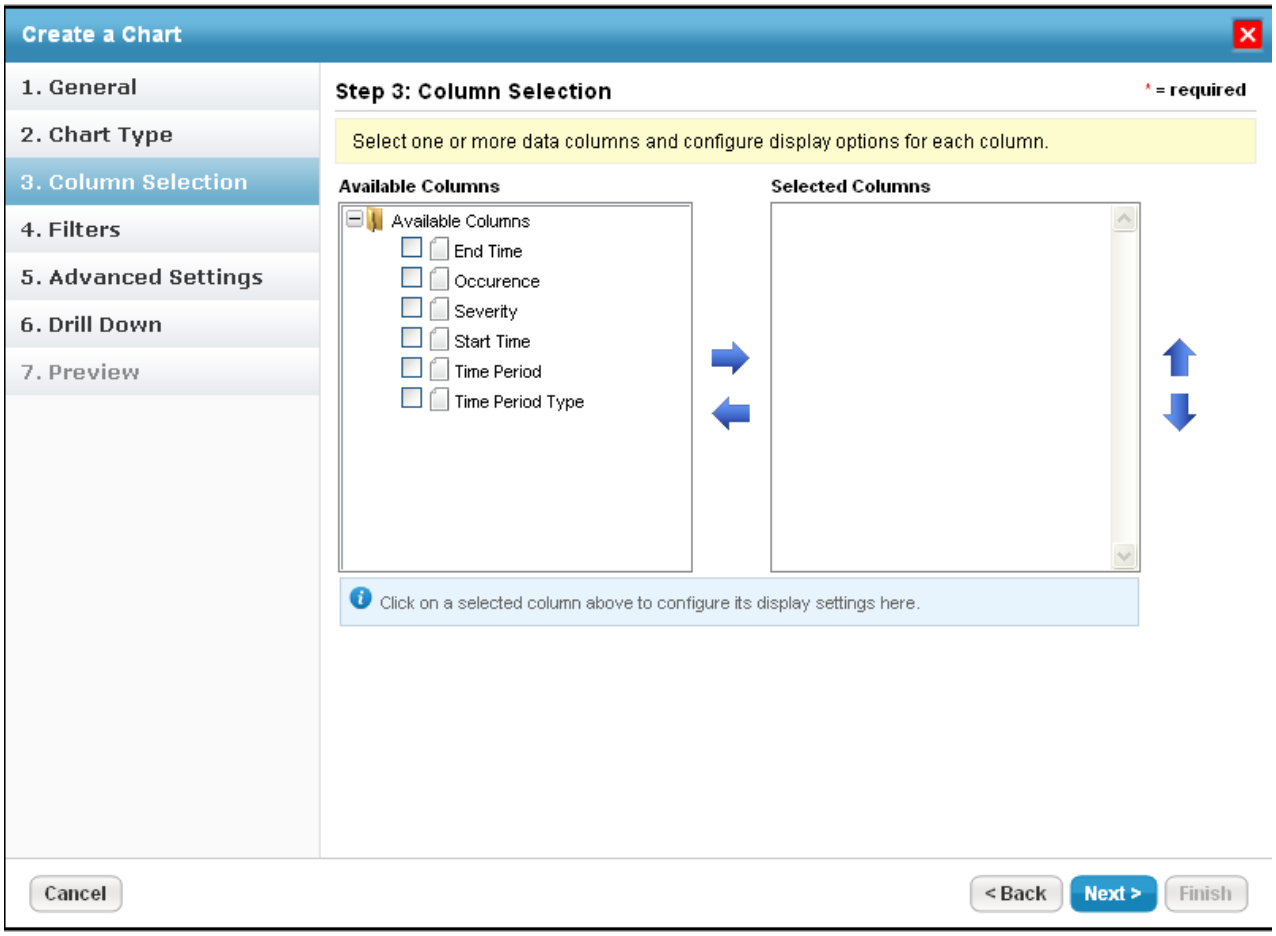
The report on "Entity" is already defined in the default `ReportWizardOptions.xml`, so it does not need to be defined here. The content of the custom `ReportWizardOptions.xml` could be:

Note that ReportOnMapping has been removed.

The new options will show up in the chart wizard after you have put this together, deploy the files in the `%AGILIANCE_HOME%\config` directory, and restart the server.



In the available attributes area, you can see the attributes defined under the **Archived Assessment** section. You can also see a lot of other attributes. This is because you included the Entity group in the Report Options section of `ReportWizardOptions.xml`.



While building the ad-hoc filters in the advanced settings step, you can use all of these columns to build the filters.

Creating an Advanced Report Template

Velocity is a popular Java-based template engine. For a general introduction to the Velocity template language, see Apache.org.

If a dashboard needs to run reports based on the results of another report or needs to get data from Java objects, the Excel template must provide a Velocity script instead of a simple Properties worksheet described in the previous section.

The Velocity script for an Excel dashboard template normally consists of three sections:

Section 1. Global Definitions

Define the URIs for dependent reports

Section 2. Preprocessing

Add the required dashboard parameters

Initialize the dependent reports

Section 3. Rendering

Get parameter value(s)

Define the target range/row/column/cell

Get data from reports

Get data Java objects

Populate the target range/row/column/cell

Return the content of the resulting dashboard (Excel workbook)

Global Definitions

Section 1 describes global definitions. It is a good practice to define some global variables in this section to contain the URIs of the dependent reports. Here are some examples:

```
#set( $report1 = '/My Reports/Entity Distribution by Criticality')

#set( $report2 = '/My Reports/Entities with Lowest 10 Compliance Scores')

#set( $report3 = '/My Reports/Entities with High Criticality')
```

Preprocessing

Section 2 includes required dashboard parameters and other preprocessing actions. This section is enclosed inside the following if-end or if-else block:

```
#if ( $dashboardContext.isPreprocessing() )

#end
```

In this section, you can add required dashboard parameters (if any) and initialize the dependent reports.

While creating an Excel-based dashboard in the Console, the server will process the preprocessing section in theVelocityScript sheet of the Excel template. More specifically, it will validate the report URIs, establish the dependencies between the dashboard and the dependent reports, and build the report parameter map.

Here is an example:

```
#if ( $dashboardContext.isPreprocessing() )

 ##

 ## Add the required dashboard parameters.

 ##

 $dashboardParameters.addParameter('reportDate', 'Report Date', 'Date'))

 $dashboardParameters.addParameter('contentPack', 'Content Pack', 'Control')

 ##

 ## Must make this call to establish the relationships between the

 ## dashboard and the dependent reports and build the parameter map.

 ##

 $dashboardContext.initReports([$report1, $report2, $report3])

#end
```

Note that the method $dashboardParameters.addParameter() takes three parameters: name, label, and type. The valid data types are listed below:

String

Number

Date

Timestamp

Entity

Control

Subcontrol

Program

Vulnerability

Ticket

DynamicGroup

If the dashboard has any dependent reports, it is mandatory to call the method $dashboardContext.initReports().

Rendering

Section 3 describes the rendering code. This section is enclosed inside the following if-end block:

#if ($dashboardContext.isRendering())

#end

Note that $dashboardContext.isRendering() is always the opposite of $dashboardContext.isPreprocessing(). If the script has a preprocessing section, the end of the preprocessing section "#end" and the start of the rendering section "#if ($dashboardContext.isRendering())" can be replaced simply by "#else."

Getting Parameter Values

For complex dashboards, you often need to get the values of the parameters and use the values to control the data generation. To get the value for a parameter, call the method $dashboardParameters.getParameterValue() with the parameter name that you specified in the preprocessing section.

For example, you can use the following line to get the content pack the user selected at runtime and assign the returned value to the variable $contentPack:

```
#set( $contentPack = $dashboardParameters.getParameterValue('contentPack'))
```

Note that the variable name does not have to match the parameter name. Also, you may directly pass the returned values to other methods shown below.

Defining The Target Range, Row, Column, Or Cell

Normally, you would want to define the data destinations first and then use the assigned variables in other method calls. The dashboard processor (i.e., $dashboardProcessor) provides the following methods for defining a target cell, row, column, and range:

1. A single cell:

getCell($excelCellReference)

getCell($sheetName, $columnName, $rowNumber)

2. A single row:

getRow($excelRowReference)

getRow($sheetName, $startColumnName, $endColumnName, $rowNumber)

3. A single unbounded column:

getColumn($excelColumnReference)

getColumn($sheetName, $columnName)

4. A single bounded column:

getColumn($excelColumnReference)

getColumn($sheetName, $columnName, $startRowNumber, $endRowNumber)

5. An unbounded range:

getRange($excelRangeReference)

getRange($sheetName, $startColumnName, $endColumnName)

6. A bounded range:

getRange($excelRangeReference)

getRange($sheetName, $startColumnName, $startRowNumber, $endColumnName, $endRowNumber)

You can use any valid Excel cell/row/column/range reference as a single argument or, preferably, you can use the form with separate components of the reference. Any of the arguments can be either variables or constant. Here are some examples:

#set($reportDateCell = $dashboardProcessor.getCell('Dashboard', 'D', 4))

#set($targetRow = $dashboardProcessor.getRow('Dashboard', 'B', 'G', $rowIndex))

#set($targetRange = $dashboardProcessor.getRange('DataSheet3', 'A', 'F'))

Getting Data from Reports

To get report data, call the method $dashboardProcessor.getReportData() with the fully qualified report name or the variable that contains the name. For example,

#set($report1Data = $dashboardProcessor.getReportData($report1))

#set($report2Data = $dashboardProcessor.getReportData('/My Reports/Entity Distribution by Criticality'))

Normally, a report returns a list of lists for most types of reports.

Getting Data from Java Objects

Most of the time, you can obtain all data for a dashboard from reports, which is the preferred way of getting data. You can even define custom reports through the RiskVision solution.

By default, the Java object $dashboardToolbox is loaded into the dashboard context. Contact Agiliance Customer Support for a complete list of methods available from this object.

In order to get data from other Java objects, the objects must be loaded into the dashboard context using$dashboardContext.loadObject(). This method requires two arguments, namely, the object name and the class name. In the example below, the object name is vulnerabilityUtil and the class name is com..web.utils.VulnerabilityUtil.

```
$dashboardContext.loadObject('vulnerabilityUtil', 'com..web.utils.VulnerabilityUtil')
```

Once this object is loaded, you can call any of its public methods. For example, the two lines below get the top 20 vulnerabilities that have been found on all entities in the system:

```
#set($maxRows = 20)

#set($topVulnerabilities = $vulnerabilityUtil.getTopVulnerabilitiesForAllEntities($maxRows))
```

Consult Agiliance Customer Support for Java objects available for this purpose.

Populating The Target Range, Row, Column, Or Cell

The dashboard processor (i.e., $dashboardProcessor) provides the following methods for populating a target cell, row, column, and range using the data from reports, Java objects, and/or parameters:

1. A single cell:

```
setCellValue($cell, $cellData)
```

2. A single row:

```
setRowValues($row, $rowData)
```

3. A single column:

```
setColumnValues($column, $columnData)
```

4. A range:

```
setRangeValues($range, $rangeData)
```

Here are some examples:

```
$dashboardProcessor.setCellValue($controlNameCell, $control.getCaption())

#set($rowData = [$v.getCaption(), $v.getDescription(), $v.getDefaultSeverity(), $count])

$dashboardProcessor.setRowValues($targetRow, $rowData)

$dashboardProcessor.setRangeValues($report3DataRange, $report3Result)
```

Note that one can nest the three calls that define a data destination, get the data, and populate the target cell/row/column/range into a single call, at the expense of reduced readability. Here is an example of such:

```
$dashboardProcessor.setRangeValues($dashboardProcessor.getRange('DataSheet3', 'A', 'F'), $dashboardProcessor.getReportData('/My Reports/Entity Distribution by Criticality'))
```

Returning the Content of the Resulting Dashboard

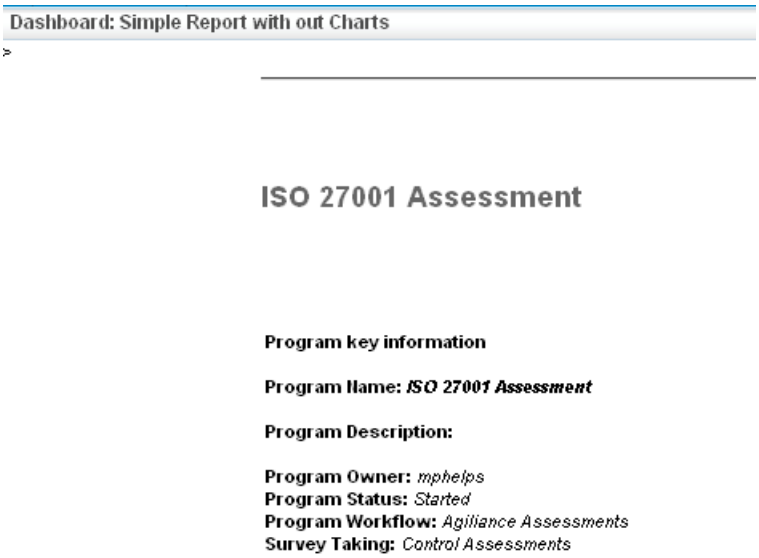
At the end of the rendering section, make the following method call to return the resulting Excel workbook:

```
$dashboardProcessor.getDashboardContent()
```

This call makes it possible for the dashboard user to view or download the results.

Example 1

This example produces a text-only HTML report that describes a Program that is specified when the report is run. Because the Program is specified as a parameter, this example report will be able to describe any Program.



In this sample output, the name, description, and properties, such as owner and status, reflect the run-time Program parameter selected.

Creating a Template in RiskVision

The first step is to create the template and open the editor to begin editing the HTML template.

1. Go to Analytics > **Dashboards** and **Reports**. On the landing page, click **New Dashboard**.
2. In the **New Dashboard or Report** dialog, enter a name for your sample custom report, such as My Example 1. Enter a description, header, and footer, or skip those fields, since they are optional and not the focus of this example.
3. For the layout, select **HTML Report, and click New.**
4. The RiskVision editor appears. Either enter or copy-and-paste the dashboard template content into the editor.

Creating an HTML template

The report template is a straightforward HTML file, with a head section and a body section, and some references to the Velocity template language. Lines that start with '#' are Velocity directives, and a number of Velocity variables are pre-defined. Within your HTML markup, you can refer to Velocity variables by name, preceded with a '$'.

The first step is a Velocity directive to create a variable called $program.

```
#set($program = $dashboardParameters.getProgram("program1", "Program"))
```

This line uses the predefined Velocity variable $dashboardParameters. This variable acts like an object in that it has a number of methods that act upon it. In this case, the code invokes the method $dashboardParameters.getProgram. When the report is run, RiskVision will detect statements such as this one and build a set of parameters for the report. This statement requests a parameter of type Program which can be called 'program1' in the context of the report template. Because we're using the #set directive, however, the Velocity reference to the Program parameter will be the variable $program. Notice that we did not have to #set $dashboardParameters. That variable, and a few others, are pre-defined in the RiskVision report context.

It is convenient to establish report parameters first, but it is not required. We could embed the getProgram() call in the HTML itself, for example. Setting up variables that refer to parameters separately from the HTML code makes it easier to maintain the HTML template in the future.

Next, create a familiar HTML document that looks something like this:

#set($program = $dashboardParameters.getProgram("program1", "Program"))

>

///Program Name will go here///

///Program Description///

///Display selected Program properties///

To display the program name, invoke the getName method on the program variable, just as you invoked the getProgram method on the pre-defined dashboardParameters object.

$program.getName()

To display the program description, invoke the getDescription method on the program.

```
$program.getDescription()
```

In a similar fashion, fetch various properties of the program using different methods. Label the results using ordinary HTML text. To differentiate, we have wrapped the labels in **(bold) tags and wrapped the property values in *(italic) markup. The last two lines invoke methods (getRaWorkflowTemplate and getSurveyTakingPreferences) on the program object that return objects, rather than strings. We invoke the getName() method on these objects. The Velocity syntax allows us to run these method invocations together using the dot ('.') operator. The 'program' object has a method called 'getSurveyTakingPreferences' that returns an object that has a method called 'getName' that returns a string.***

Program key information

Program Name: ***$program.getName()***

Program Description: *$program.getDescription()*

Program Owner: *$program.getAuthor()*

Program Status: *$program.getStatusDB()*

Program Workflow: *$program.getRaWorkflowTemplate().getName()*

Survey Taking: *$program.getSurveyTakingPreferences().getName()*

Saving the New HTML Report

After the HTML template has been entered into the editor:

1. ***Click OK to close the editor***
2. ***Click OK to save the report***

The new report runs immediately. Because the template includes a call to getProgram(), RiskVision prompts for a program. The next time the report is run, it will use the program selected the first time it was run. To select a different program, click Parameters on the report display page.

Example Template

The complete HTML template for this example is:

```
#set($program = $dashboardParameters.getProgram("program1", "Program"))



>
```

$program.getName()

$program.getDescription()

Program key information

Program Name: ***$program.getName()***

Program Description: *$program.getDescription()*

Program Owner: *$program.getAuthor()*

Program Status: *$program.getStatusDB()*

Program Workflow: *$program.getRaWorkflowTemplate().getName()*

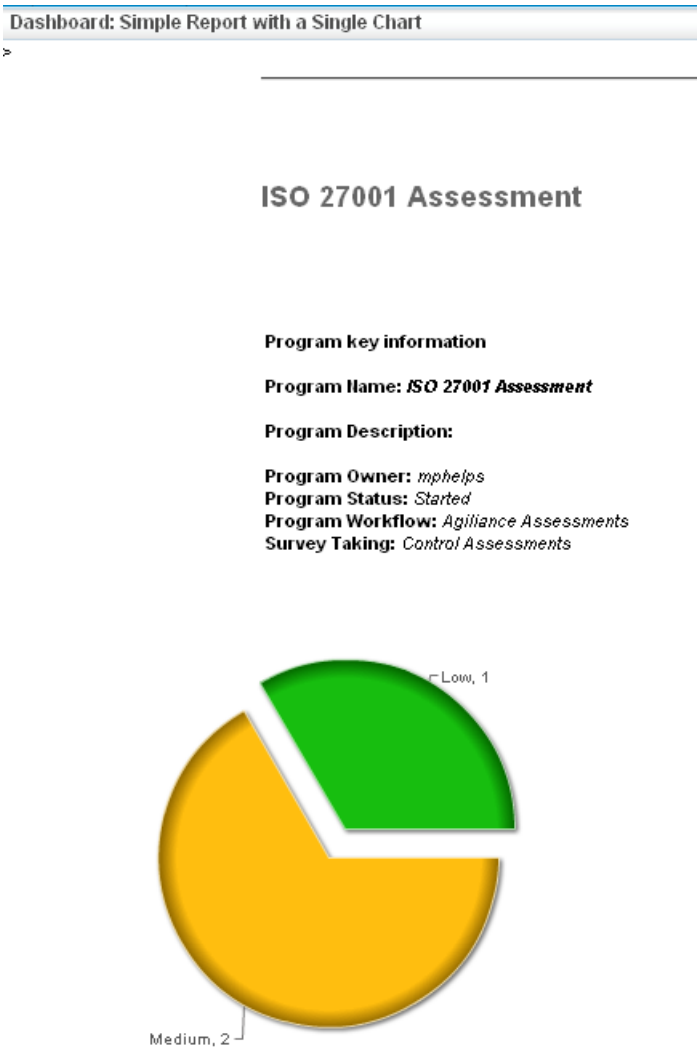
Survey Taking: *$program.getSurveyTakingPreferences().getName()*

Subsequent examples are more complicated and include charts to visualize the data, but they will build logically on this example.

The next example, Example 2, adds a chart to this report.

Example 2

This example builds on Example 1. It produces an HTML report that describes a Program and includes a chart. Because the Program is specified as a parameter, this example report will be able to describe any Program.



This example will focus on adding the chart. Most of the HTML template is described in more detail in Example 1.

Setting up Parameters

The report template is a straightforward HTML file, with a head section and a body section, with some references to the Velocity template language. Lines that start with '#' are Velocity directives. A number of Velocity variables are pre-defined. Within your HTML markup, you can refer to Velocity variables by name, preceded with a '$.'

The first step is a Velocity directive to create a variable called $program.

```
#set($program = $dashboardParameters.getProgram("AuditProject.id1", "Program"))
```

Next, initialize the chart:

```
$dashboardParameters.initChart("Shared Reports/System/Project Reports/Entities in Project by Criticality",
"large")
```

The long name, "Shared Reports/System/Project Reports/Entities in Project by Criticality," refers to a specific chart in the tree hierarchy. The first argument to the initChart method is the URL of the chart. The second argument can be "large" or "small."

Note: URLs are not affected by changes to UIDictionary.xml. By editing that file, users can change the display of terms such as 'System' or 'Reports.' Because URLs do not change, your custom reports do not have to be updated if UIDictionary.xml is changed.

Adding the Chart

You can add the chart to the bottom of the text-only in Example 1 by appending the following HTML. In this example, you can arbitrarily limit the chart to 50% of the window width, but this can be specified in absolute units.

```
$dashboardParameters.getChart("Shared Reports/System/Project Reports/Entities in Project by
Criticality")
```

To display the program name, invoke the getName method on the program variable, just as you invoked the getProgram method on the pre-defined dashboardParameters object.

Example Template

The complete HTML template for this example is:

```
#set($program = $dashboardParameters.getProgram("AuditProject.id1", "Program"))

$dashboardParameters.initChart("Shared Reports/System/Project Reports/Entities in Project by Criticality","large")

>
```

$program.getName()

$program.getDescription()

Program key information

Program Name: ***$program.getName()***

Program Description: *$program.getDescription()*

Program Owner: *$program.getAuthor()*

Program Status: *$program.getStatusDB()*

Program Workflow: *$program.getRaWorkflowTemplate().getName()*

Survey Taking: *$program.getSurveyTakingPreferences().getName()*

```
$dashboardParameters.getChart("Shared Reports/System/Project Reports/Entities in Project by Criticality")
```

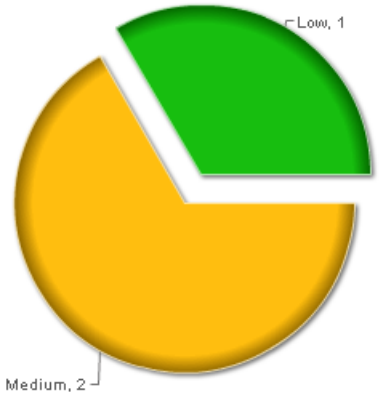
The next example, Example 3, explains how to include multiple charts in a report.

Example 3

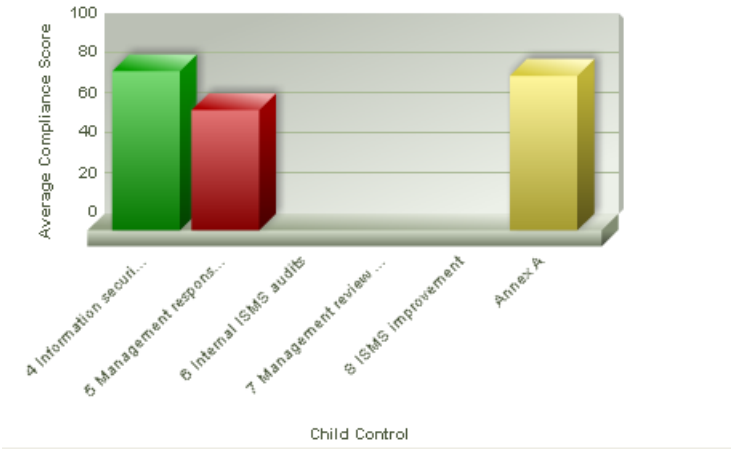
This example builds on Example 2, producing an HTML report that describes a Program with two charts. Because the Program is specified as a parameter, this example report will be able to describe any Program.

Program Workflow: *Agiliance Assessments*
Survey Taking: *Control Assessments*

Entities in Program ISO 27001 Assessment by Criticality



Compliance Score for Children of Assigned Controls in Program ISO 27001 Assessment



This example will focus on the charts. Setting up the HTML template itself is described in more detail in Example 1.

Setting up Parameters

The report template is a straightforward HTML file, with a head section, a body section and some references to the Velocity template language. Lines that start with '#' are Velocity directives, and a number of Velocity variables are pre-defined. Within your HTML markup, refer to Velocity variables by their name, preceded with a '$.'

As in Example 2, issue a Velocity directive to create a variable called $program.

```
#set($program = $dashboardParameters.getProgram("AuditProject.id1", "Program"))
```

Next, initialize the charts:

```
$dashboardParameters.initChart("Shared Reports/System/Project Reports/Entities in Project by Criticality", "large")

$dashboardParameters.initChart("Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control","large")
```

In this case, use the Velocity #set directive to attach the second chart to a variable, $report_1, you can insert into the HTML later.

```
#set($report_1 = $dashboardParameters.getChart("Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control"))
```

Because the result of the getChart method invocation is assigned to the variable $report_1, place the chart wherever it is needed by simply embedding the Velocity variable in the HTML code. At runtime, the variable reference is replaced with the graphical chart:

```
$report_1
```

Adding the Charts

For this example, label the charts using Velocity method calls.

```
Entities in Program $program.getName() by Criticality

$dashboardParameters.getChart("Shared Reports/System/Project Reports/Entities in Project by
Criticality")

Compliance Score for Children of Assigned Controls in Program $program.getName()

$report_1
```

To display the program name, invoke the getName method on the program variable, just as you invoked the getProgram method on the pre-defined dashboardParameters object.

Example Template

The complete HTML template for this example is:

```
#set($program = $dashboardParameters.getProgram("AuditProject.id1", "Program"))

$dashboardParameters.initChart("Shared Reports/System/Project Reports/Entities in Project by Criticality",
"large")
```

The next example, Example 4, explains how to include multiple charts in a report.

Example 4

This example builds on Example 3, producing an HTML report that demonstrates looping and conditional code in Velocity and enumerates the children of selected objects. The code also shows how to create a multi-page report using CSS facilities.

This is an advanced example. Setting up the HTML template itself is described in more detail in Example 1.

Setting up Parameters

As in the previous examples, issue a Velocity directive to create a variable based on run-time parameters.

```
#set($regulation = $dashboardParameters.getControl("PolicySet.id1", "Control or Questionnaire"))
#set($assessmentProject = $dashboardParameters.getProject("AuditProject.id1", "Program"))
$dashboardParameters.initChart("/Shared Reports/System/Controls Compliance/Compliance Level of a Control in a Project", "small")
$dashboardParameters.initChart("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control","large")
```

Inserting Page Breaks

You can produce arbitrarily complex HTML code, including Cascading Style Sheets (CSS), Javascript, and other technologies that are beyond the scope here to discuss. The following code illustrates how embedding CSS can paginate the output of your report. First, define the style in head:

This code specifies a page break before all paragraphs of class "breakpage."

To start on a fresh page, insert the HTML:

Looping

Iterating over a set of objects is accomplished using the #foreach Velocity directive. The following loop prints the title and description of each child of the specified Program.

```
#set($sections =
$DT.getChildren($regulation))
#foreach($section in $sections)
```

```
$section.getDescription()
```

```
#end
```

Note that $DT is an abbreviation for $dashboardTemplate.

Conditional Output

It can be useful to output certain HTML snippets only under particular circumstances. Velocity supports the #if directive for this purpose. You can set up index variables in your loop in order to output HTML only at the end of the loop, for example, or at the beginning.

```
#set ($i = 1)
#foreach($section in $sections)
#if ($i != 1 )
```

```
#end
#set ($i = $i+1)

#end
```

This code establishes an index variable, $i, and outputs a horizontal rule (

) every time through the loop except the first. This will output section 1, horizontal rule, section 2, horizontal rule, and so on.

Example Template

The complete HTML template for this example is:

```
#set($regulation = $dashboardParameters.getControl("PolicySet.id1", "Control or Questionnaire"))
#set($assessmentProject = $dashboardParameters.getProject("AuditProject.id1", "Program"))
$dashboardParameters.initChart("/Shared Reports/System/Controls Compliance/Compliance Level of a Control in a Project", "small")
$dashboardParameters.initChart("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control","large")
```

```
>
```

$regulation.getTitle()

$regulation.getDescription()

Compliance / Risk Summary for $regulation.getTitle()

>

Project key information

Project Name: ***$assessmentProject.getName()***

Project Description: *$assessmentProject.getDescription()*

Project Owner: *$assessmentProject.getAuthor()*

Project Status: *$assessmentProject.getStatusDB()*

Project Workflow:
$assessmentProject.getRaWorkflowTemplate().getName()

$dashboardParameters.setControl("/Shared Reports/System/Controls Compliance/Compliance Level of a Control in a Project", "PolicySet.id1", $regulation)
$dashboardParameters.getChart("/Shared

Survey Taking:

$assessmentProject.getSurveyTakingPreferences().getName()

Reports/System/Controls Compliance/Compliance Level of a Control in a Project")

Regulation or Control Framework: *$regulation.getTitle()*

Regulation or Control

Desciption: *$regulation.getDescription()*

$dashboardParameters.setControl("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control", "PolicySet.id1", $regulation)
$dashboardParameters.getChart("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control")

#set ($i = 1)
#set($sections = $DT.getChildren($regulation))
#foreach($section in $sections)

#if ($i!=1)

#end

#set ($i = $i+1)

$section.getDescription()

$dashboardParameters.setControl("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control", "PolicySet.id1", $section)

$dashboardParameters.getChart("/Shared Reports/System/Compliance/Compliance Score in a Project for Children of a Control")

#set($sections_b = $DT.getChildren($section))

#foreach($section_b in $sections_b)

$section_b.getTitle()

$section_b.getDescription()

```
#end
#end
```

Example 5

This example is created using the "An Entity Compliance Summary" system HTML report and it contains the Program and Entity parameters. The objective of this example is to show you how to embed the entity creation feature in dashboard. To modify the HTML code of the "An Entity Compliance Summary" report, you must copy the report to the My Dashboards folder or to any folder for which you have the ownership.

Setting up the Report

After you copy the report, modify the report template to include the following lines in the HTML code. To modify a report template, seeModifying a Template.

#if ($dashboardContext.isRendering())

New Asset onclick='$DT.getNewAssetURL() '> Click to create new Asset

#end

Dashboard Output

After adding the HTML code, run the dashboard, and input the parameters to view the dashboard as:

The dashboards contains a Create Entity button that will launch the entity creation wizard.

Unless you have the Create entity permission, creating an entity is not possible on the dashboard even if the feature is visible to you.

Understanding Simplified Schema

RiskVision defines "views" in the underlying database tables in order to make references to certain objects, such as tickets, exception requests, and incidents, easier to specify in custom dashboards and reports.

Views are similar to tables in that tables have columns and rows, but views are references to more complicated relational tables in the database.

The following views are pre-defined:

aglrt_comments

View Column Name	Data Type
comment_id	bigint(20)
associated_object_id	bigint(20)
Comment	text
Type	varchar(64)
Entered By	varchar(255)
EnteredOn	timestamp

aglrt_attachments

View Column Name	Data Type
attachment_id	bigint(20)
owning_object_id	bigint(20)
Caption	varchar(4000)
Description	varchar(4000)
Uploaded By	varchar(255)
Uploaded On	timestamp
Size	int(11)
Expires On	timestamp

aglrt_exceptionrequestworkflow

View Column Name	Data Type
exceptionrequest_id	bigint(20)
Stage Name	varchar(255)

View Column Name	Data Type
Current	int(9)

aglr_exception_request

View Column Name	Data Type
exceptionrequest_id	bigint(20)
Compensatory Controls	bit(1) (1=include compensatory controls)
End Date	timestamp
Next Review	timestamp
Override Subcontrol Response Score	float
Reason for Exception	varchar(4000)
Start Date	timestamp
Start the Recurrence on	timestamp
Title	varchar(255)
and again at	timestamp

aglrt_erworkflowowner

View Column Name	Data Type
exceptionrequest_id	bigint(20)
Stage Name	varchar(255)
Owner	text (first + initial + last)

aglrt_workflowhistory

View Column Name	Data Type
payload_id	bigint(20)
Date	timestamp
Stage	varchar(255)
Action	varchar(255)
To Stage	varchar(255)

View Column Name	Data Type
User	varchar(255)
Comment	varchar(4000)
target_user	varchar(4000)

aglrt_changehistory

View Column Name	Data Type
object_id	bigint(20)
Who	varchar(255)
When	timestamp
Change	text

aglrt_ticketworkflow

View Column Name	Data Type
ticket_id	bigint(20)
Stage Name	varchar(255)
Current	int(0) (stage name)

aglr_ticket

View Column Name	Data Type
ticket_id	bigint(20)
Category	varchar(255)
Description	text
Disposition	varchar(128)
End	timestamp
Exception Expiration Date	timestamp
Owner	varchar(255)
Planned End	timestamp
Planned Start	timestamp

View Column Name	Data Type
Priority	varchar(32)
Progress	smallint(6)
Start	timestamp
Status	varchar(255)
Title	varchar(255)
Type	varchar(64)
Workflow	varchar(255)

aglrt_ticketlinkedobjects

View Column Name	Data Type
ticket_id	bigint(20)
object_id	bigint(20)
Type	varchar(128)
Name	varchar(255)
Owner	varchar(511)
Criticality	varchar(128)

aglrt_ticketworkflowowner

View Column Name	Data Type
ticket_id	bigint(20)
Stage Name	varchar(255)
Owner	text (first + initial + last)

aglrt_workflowhistory

View Column Name	Data Type
payload_id	bigint(20)
Date	timestamp
Stage	varchar(255)
Action	varchar(255)
To Stage	varchar(255)

View Column Name	Data Type
User	varchar(255)
Comment	varchar(4000)
target_user	varchar(4000)

aglr_incident_action

View Column Name	Data Type
incidentaction_id	bigint(20)
Action Description	varchar(4000)
Action Summary	varchar(128)
Action Time	timestamp
Resolution	varchar(128)
Status	varchar(64)

aglv_incidentowners

View Column Name	Data Type
incident_id	bigint(20)
Stakeholder	text (first + initial + last)

AGILIANCE_DATA_SOURCE_FILTERABLE Paramter Not Working on Some Reports

The AGILIANCE_DATA_SOURCE_FILTERABLE parameter disables ACL filters on the Jasper side of any custom report imported to the Japser Report server. However, it will only work on custom reports that do not have any additional input controls applied to them. This is due to contradicting behaviour between the parameter and input control functionality.

In order to work around this issue, users must edit the base report query to append input control specific conditions within its **where** clause to achieve the desired output.

About JasperReports Server

RiskVision offers a third-party business intelligence tool called JasperReports Server that you can use for building sophisticated charts and dashboards. JasperReports Server includes a wide variety of advanced report building techniques that you may use on existing RiskVision charts.

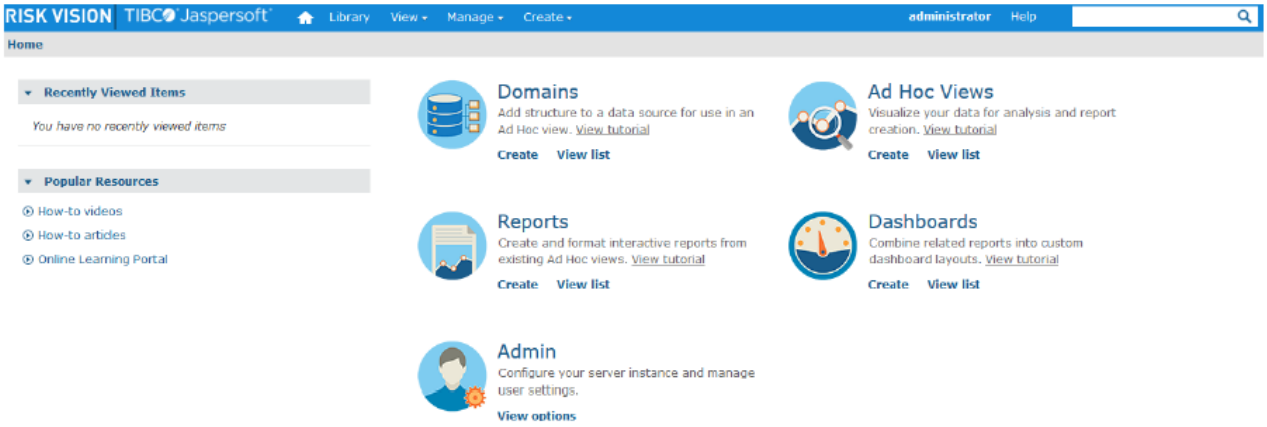
Some of the JasperReports Server key features include:

- Ad Hoc Editor
- Dashboards
- Domain
- Reports
- Scheduler

If you are using Internet Explorer 10 to access JasperReports Server, make sure that you have disabled the *Internet Explorer compatibility mode*.

Accessing The JasperReports Server

Any user who can log in to RiskVision and has the Dashboards and Reports View permission can access the JasperReports Server application. Once logged into RiskVision application, go to Analytics > Analytics and Reporting to access the Jasper-Reports Server application. When you click the Analytics and Reporting option the TIBCO Jaspersoft Server home page appears in a tabbed browser.



Depending on the Jasper role or RiskVision role assigned to you, a default home page with options to perform one or more tasks appears. Click an option to display menu items at the top. JasperReports Server menu can be used to perform the following:

1. Viewing Reports and Repository
2. Creating Ad-Hoc report, Dashboard, and Domain
3. Managing organizations, users, and roles

JasperReports Server Key Features

This section describes major key features of JasperReports Server, including the concepts Ad hoc Editor, Dashboard, Domains, Reports, and Scheduler.

To access the Jaspersoft documentation, go to **Start > All Programs > Report Server > JasperReports Server Documentation.**

Ad Hoc Editor

The Ad hoc Editor is an easy-to-use report building utility that supports drag and drop. Typically, you use topics or domains to create reports on the fly. Because of the drag and drop feature, this editor will reduce ambiguity and produces the desired layout and output. During report design, you can format the report appearance, switch the report type (table, crosstab, and chart), sort the report data, edit labels for the data displayed in a report, add custom fields to perform mathematical calculations and so on.

For information about how to create a report and format the appearance of a table, chart, and crosstab report types using the Ad Hoc Editor, see Creating an Ad Hoc Table Report, Creating an Ad Hoc Chart Report, and Creating an Ad Hoc Crosstab Report.

In order to explore more advanced features and options in the Ad hoc Editor, refer to the sections, "Designing an Ad hoc Report," "Creating a Report from a Domain," "Formatting the Appearance of a Table," "Refining the Crosstab," and "Designing Charts," in the JasperReports-Server-User-Guide.

Dashboard

JasperReports Server provides many user-friendly features to build interactive dashboards. Some of the advanced features are:

- Including data from multiple sources by adding a URL to the dashboard
- Display free text items on the dashboard. For example, add a title to the dashboard
- Adding input parameters using a single control or multiple controls to update the dashboard's data
- Adjusting a dashboard's layout
- Setting the canvas size (dashboard display area) to adjust to your system's screen resolution

For information about the content you can add to a dashboard, see "Dashboard Overview". To learn how to create a dashboard, see "Creating a Simple Dashboard" in the *JasperReports-Server-User-Guide*.

Domains

Typically, a database allows you to run a query across tables using various operations such as joins and derived tables to provide on-going reports. RiskVision avoids the difficulties of direct database access by providing a collection of pre-defined domains. A domain is a data provider that acts as a logical layer between your reports and the database. A domain represents a subset of the tables and columns in the RiskVision database. You can use domains to create reports using the Ad Hoc editor. Using a domain, you can write SQL queries, perform join operations, add filters, and provide security to specify what data can be accessed by a particular group of users. The modifications that you perform on a domain do not alter the database.

Reports

Reports can be exported to various output formats such as Adobe Acrobat (PDF), Microsoft Excel (XLS or CSV), Microsoft Word (DOCX or RTF), Adobe Flash (SWF), OpenDocument Text (ODT), Open Document Spreadsheet (ODS), and Microsoft Open XML Format Spreadsheet (XLSX). For information about how to run and export a report to an appropriate format, see Predefined Reports in JasperReports Server, Running Predefined Reports in JasperReports Server, and Viewing and Running a Report in the Ad Hoc Editor.

Trend Metrics

An important part of risk management is knowing whether you are doing a better or worse job of managing your risk. By allowing you to view specific data over time, trending reports provide this information. The Metrics Trend Generator feature provides a means to specify the data you want to trend as well as reports to view this data. The Metrics Trend Generator feature allows you to trend data related to tickets and vulnerabilities.

Enabling The Collection Of Trend Data

There are two types of configuration required in order to set up metrics trending:

Configure Jobs

Each type of trending object has its own dedicated job that runs to collect data for the object at predefined intervals. Therefore, there are jobs for tickets and vulnerabilities. If you want to establish trending for either type of object you must first enable its job.

The TrendingSchedulerConfiguration.xml allows you to configure job-level settings. These settings consist of the following:

- Whether the job is enabled. By default, enabled is set as false. To turn on the job, you need to set enabled to true as follows:true. You can also enable the job by going to the RiskVision Administration module, selecting the Scheduled Jobs page, finding the relevant job, clicking in the checkbox to the left of the job name, and selecting the Activate button at the top of the page. You can then click on the name of the job to view and change the execution schedule of the job. The names of the job in the Scheduled Jobs page is Trending Data Collection for Tickets
- The frequency of trending data collection. The line of the TrendingSchedulerConfiguration.xml file where this setting is made is as follows: daily. Values that can be inserted into the line are daily, weekly, monthly, and yearly.
- Time each day that the job is run. The line of the TrendingSchedulerConfiguration.xml file where this setting is madeis as follows:hours, minutes. For example, if the setting 22,0 was in place, the job would run every day at 10:00 PM. Note that the job cannot be run more frequently than once per day.

Configure Tasks

Each job has multiple tasks related to the job. Each task represents a query that is run to obtain trending data that can be used for one or more reports that bring back data related to the object type, whether they are tickets or vulnerabilities. By default, tasks are enabled. You can disable some tasks while leaving the rest enabled, if you choose. To disable a task, you can change enabled=”true” to enabled=”false”.

You will notice that some tasks have a line that reads in part , such as the following: . If you decide to write trending data to the database on a daily basis, you can use this feature to also create weekly summaries of data so that figures such as averages and standard deviations that are difficult to calculate with daily rolled up daily data can be properly calculated. This feature will also create monthly data if it is set to either weekly or monthly.

The startOfWeek ="Sunday" expression treats Sunday as the first day of the week for purposes of writing weekly trend metrics to the database. The start = "true" expression denotes that the trending data will be written to the database on the first day of the week while the end ="true" expression results in the trending data being written to the database on the last day of the week.

There is also a line in the task, as seen in the sample below, that starts with groupBy. Changing the groupBy expression allows you to control how you want to group the data returned by the trending query. For example, in the below sample task you can change from group by type to group by stage.

```
owner, priority, ticket_type
```

Figure 1 - Sample task

Below is a list of tasks for the two trending jobs:

- Tickets

Tickets

- ticket_type_stage - Provides a list of the open tickets by type with average age and average stage age.

- ticket_owner_stage - Provides a list of the open tickets by owner with average age and average stage age.
- ticket_owner_allstage-Provides a list of the closed tickets by owner with average age and average stage age.
- ticket_type_allstage - Provides a list of the closed tickets by type with average age and average stage age.
- ticket_priority_stage - Provides a list of the open tickets by priority with average age and average stage age.
- ticket_risk_stage - Provides a list of the open tickets by risk with average age and average stage age.
- owner_priority_type - Provides a list of the open tickets by risk with average age and average stage age.
- closed_ticket_owner_stage - Provides a list of the average age, average stage age, standard deviation age, and standard deviation stage age for closed tickets by owner.
- closed_ticket_type_stage - Provides a list of the average age, average stage age, standard deviation age, and standard deviation stage age for closed tickets by ticket type.
- ticket_entityowner_stage - Provides a list of the average age, average stage age, standard deviation age, and standard deviation stage age for closed tickets by owners of the entities linked to the tickets.

Trending Database Table Structure

The purpose of this section of the Administrative Guide is to help you become familiar with the table structure of the trending database tables so that you can create custom trending reports with the data in the database. Each table was designed to be flexible enough to accommodate multiple types of trends.

There is a database devoted to each object and trending job. Therefore, there are 2 total trending-related database tables. Below is a list of these tables with a categorization of the types of fields in each table:

agl_trending_ticket

The agl_trending_ticket table, as the name implies, contains trending data for tickets. The tasks for the trending job, covered earlier in this chapter, execute the queries that populate the data in this table. The columns in this table and the type of data each column contains are as follows:

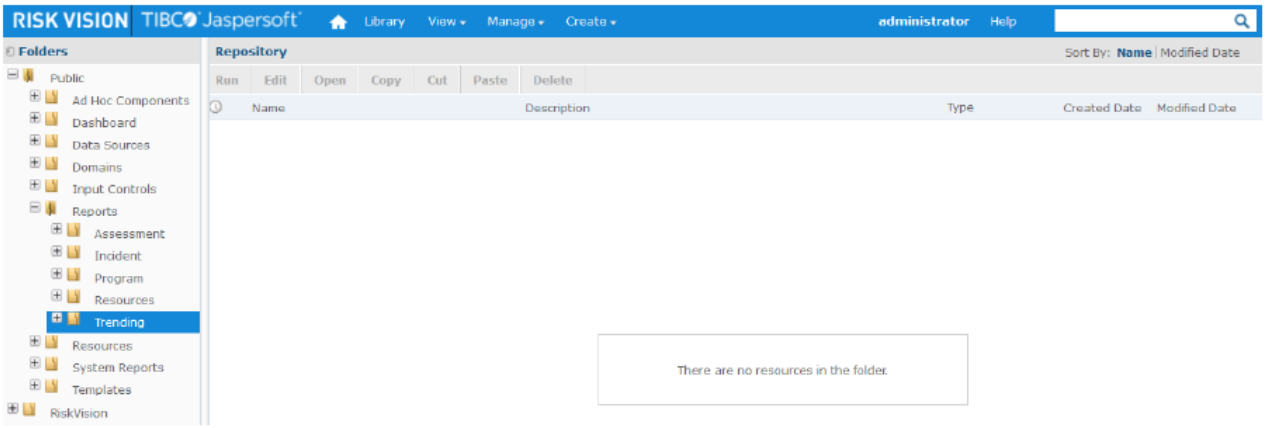
trending_type - This column labels the type of ticket trending data in the database row. You will need to refer to the type in your WHERE clause to ensure your query is obtaining the type of data that you desire. The possible type values equate to the task names, which were covered earlier in this section. Examples of trending type values include ticket_type_stage, ticket_priority_stage, and ticket_entityowner_stage.

current_interval - The starting point of each interval in which rollups to the trending table occur. If an object's job is set to run on a daily basis, then there will be daily, weekly, and monthly rollups. All daily jobs will have the same current_interval, all weekly jobs share the same current_interval, and all monthly jobs have the same current_interval. This field is designed for internal use.

- collection_time - The time the record is created
- quantity - Total number of tickets in a group (e.g. total tickets of a type)
- is_closed - Total number of tickets that were closed during an interval.
- is_opened - Total number of tickets that were created during an interval.
- total_closed - At this collection time, the number of tickets in a closed state.
- total_opened - At this collection time, the number of tickets in an open state.
- avg_stage_age - Average days spent in the current stage.
- avg_age - Average days from creation to close for closed tickets. For open tickets, this is calculated as the difference between the creation date and the date the metric was written to the database.
- std_stage_age - Standard deviation of stage age.
- std_age - Standard deviation of age
- groupby1_string - String that describes the group of trend metrics. For example, if the trending query is for tickets by owner, by priority, by risk, and by type, the groupby1_string would be the owner's name.
- groupby2_string - String that describes the group of trend metrics. For example, if the trending query is for tickets by owner, by priority, by risk, and by type, the groupby2_string would be the priority of the group of tickets.
- groupby3_string - String that describes the group of trend metrics. For example, if the trending query is for tickets by owner, by priority, by risk, and by type, the groupby3_string would be the risk level of the group of tickets.
- groupby4_string - String that describes the group of trend metrics. For example, if the trending query is for tickets by owner, by priority, by risk, and by type, the groupby3_string would be the type of the group of tickets.
- groupby5_string - String that describes the group of trend metrics. Most trending queries will not require a 5th groupby string, but this column is here in case it is needed.
- groupby1_number - Numerical value that is common to a group of tickets. Most queries will probably not use this field, but it could be useful if a custom attribute that is represented by a number, such as Category, is added to the ticket object.
- Groupby2_number - Numerical value that is common to a group of tickets. Most queries will probably not use this field, but it could be useful if a custom attribute that is represented by a number, such as Category, is added to the ticket object.
- Groupby3_number - Numerical value that is common to a group of tickets. Most queries will probably not use this field, but it could be useful if a custom attribute that is represented by a number, such as Category, is added to the ticket object.

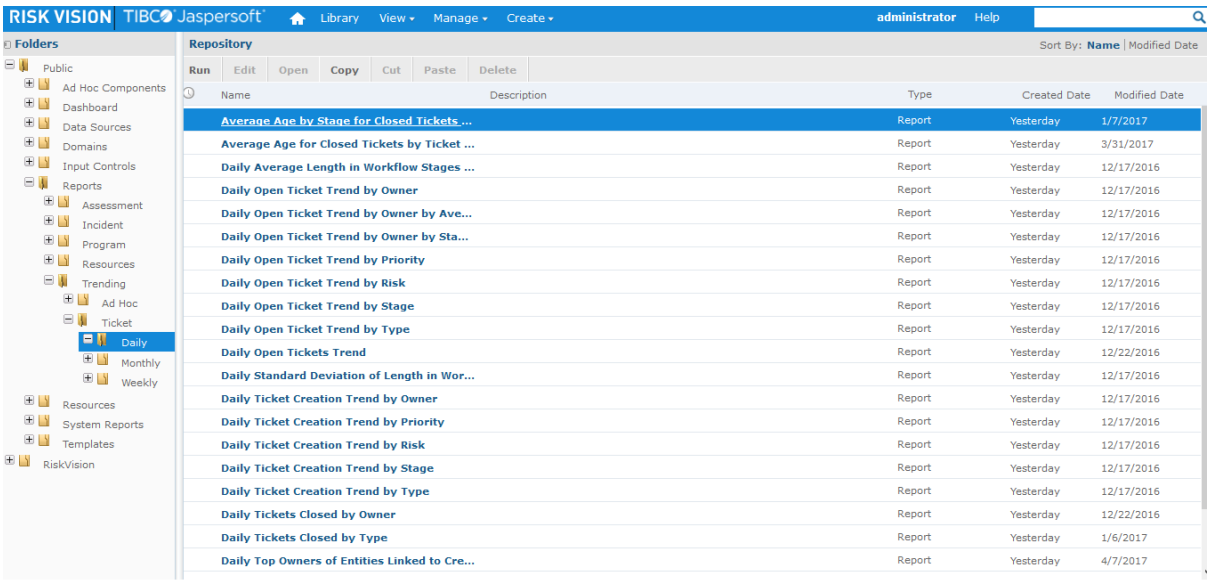
Trending Ad Hoc Reports

The trending ad hoc reports are categorized as per the object folders in the **Trending** sub-folder under the **Reports** sub-folder in the **Public** folder.



In the Trending sub-folder, based on the data frequency collection the reports are categorized into folders, they are:

- Daily
- Weekly
- Monthly



List of Trending Ad Hoc reports by Tickets

The reports are categorized based on the data collection frequency of tickets. They are as follows:

1. Daily
2. Weekly
3. Monthly

The list of reports available under the hierarchy is as follows:

1. Daily

- Daily Open Ticket Trend By Owner: Daily trend of the total number of open tickets by ticket owner for the last 60 days.
- Daily Ticket Creation Trend By Owner: Daily trend of the total number of tickets created for ticket owners for the last 60 days
- Daily Open Ticket Trend By Type: Daily trend of the total number of open tickets by ticket type for the last 60 days
- Daily Ticket Creation Trend By Type: Daily trend of the total number of created tickets by ticket type for the last 60 days
- Daily Open Ticket Trend By Priority: Daily trend of the total number of open tickets by ticket priority for the last 60 days
- Daily Ticket Creation Trend By Priority: Daily trend of the total number of created tickets by ticket priority for the last 60 days
- Daily Open Ticket Trend By Risk: Daily trend of the total number of open tickets by ticket risk for the last 60 days
- Daily Ticket creation Trend By Risk: Daily trend of the total number of created tickets by ticket risk for the last 60 days
- Daily Open Ticket Trend By Owner by Average Age: Daily trend of the average age of the total number of open tickets by ticket owner for the last 60 days
- Daily Open Ticket Trend By Owner by Standard Deviation of Age: Daily trend of the standard deviation of total number of open tickets by ticket owner for the last 60 days
- Daily Open Ticket Trend by Stage: Daily trend of the total number of open tickets by workflow stage for the last 60 days
- Daily Ticket creation Trend by Stage: Daily trend of the total number of tickets created by workflow stage for the last 2 months
- Daily Top Owners of Entities Linked to Open Tickets: Daily trend of open tickets linked to entities by entity owner for the last 60 days
- Daily Top Owners of Entities Linked to Created Tickets: Daily trend of created tickets linked to entities by entity owner for the last 60 days
- Daily Average Length in Workflow Stages for Closed Tickets: Daily trend of average length in workflow stages for closed tickets for the last 60 days
- Daily Standard Deviation of Length in Workflow Stages for closed tickets: Daily trend of standard deviation of length in workflow stages for closed tickets for the last 60 days
- Daily Open Tickets Trend: Daily trend of the total number of open tickets by ticket priority for the last 60 days
- Daily Tickets Closed by Owner: Daily trend of the total number of tickets closed by ticket owner for the last 60 days
- Daily Tickets Closed by Type: Daily trend of the total number of tickets closed by ticket type for the last 60 days
- Average Age by Stage for Closed Tickets by Ticket Type: Daily trend of average age of each workflow stage for closed tickets by ticket type for the last 60 days
- Average Age for Closed Tickets by Ticket Type: Daily trend of average age for closed tickets by ticket type for the last 60 days
- Standard Deviation Age by Stage for Closed Tickets by Ticket Type: Daily trend of standard deviation of age of each workflow stage for closed tickets for the last 60 days
- Standard Deviation Age for Closed Tickets by Ticket Type: Daily trend of standard deviation of age for closed tickets for the last 60 days
- Weekly
- Weekly Average Length in Workflow Stages for Closed Tickets: Weekly trend of average length in workflow stages for closed tickets for the last 52 week
- Weekly Open Ticket Trend By Owner by Average Age: Weekly trend of the average age of the total number of open tickets by ticket owner for the last 52 week
- Weekly Open Ticket Trend By Priority: Weekly trend of the total number of open tickets by ticket priority for the last 52 week
- Weekly Open Ticket Trend By Type: Weekly trend of the total number of open tickets by ticket type for the last 52 week
- Weekly Ticket Creation Trend By Priority: Weekly trend of the total number of created tickets by ticket priority for the last 52 week
- Weekly Ticket Creation Trend By Type: Weekly trend of the total number of created tickets by ticket type for the last 52 week

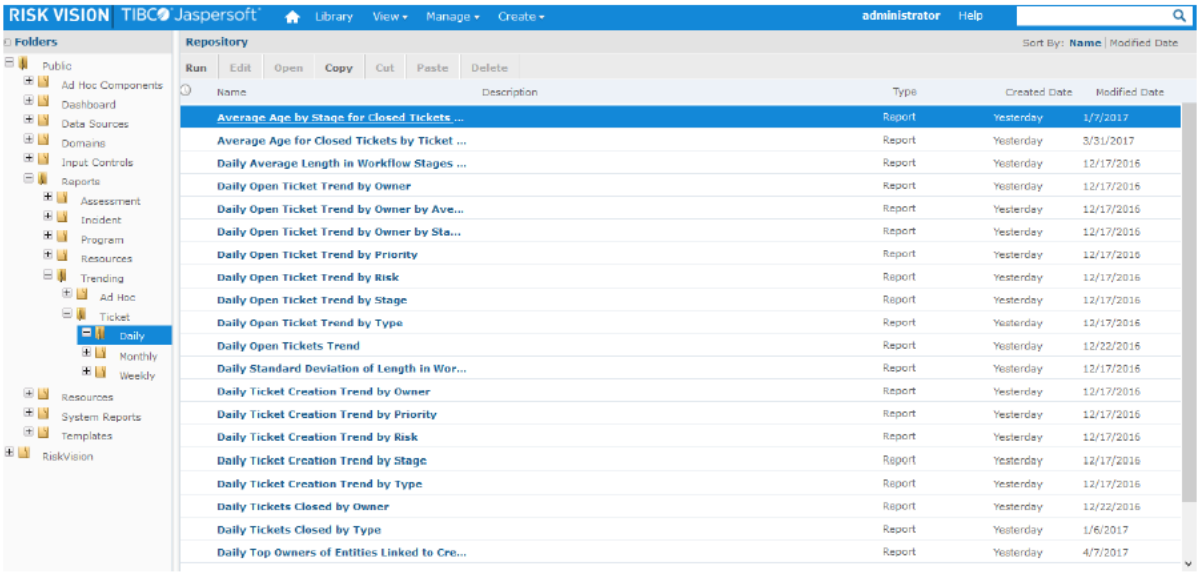
- Monthly
- Monthly Average Length in Workflow Stages for Closed Tickets: Monthly trend of average length in workflow stages for closed tickets for the last 24 months

Running A Trending Report

To run a report such as the Daily Open Ticket Trend by Owner predefined report, follow the steps below.

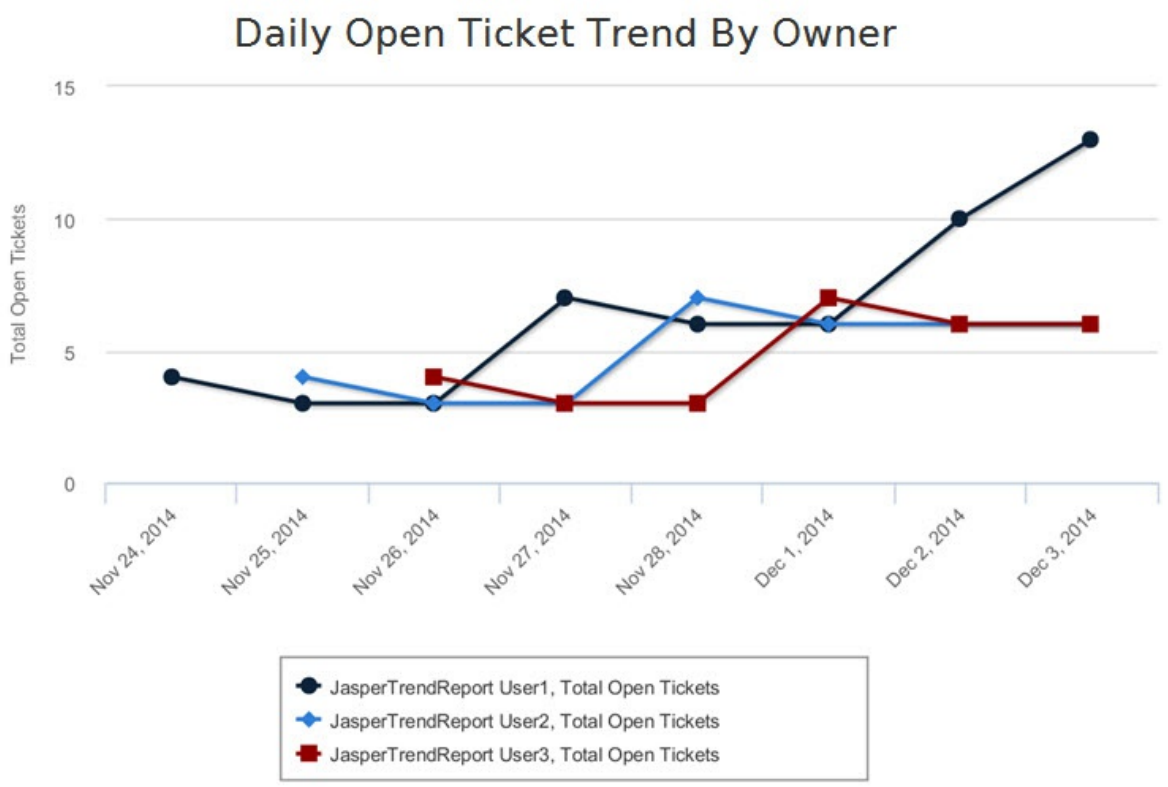
To view or run a predefined trending report:

1. Go to **Analytics > Analytics and Reporting** to launch the JasperReports Server.
2. Go to **View > Repository**, and expand the **Trending** folder under the **Reports** folder that is present in the **Public** folder.
3. Select the **Daily** folder to display the list of reports.

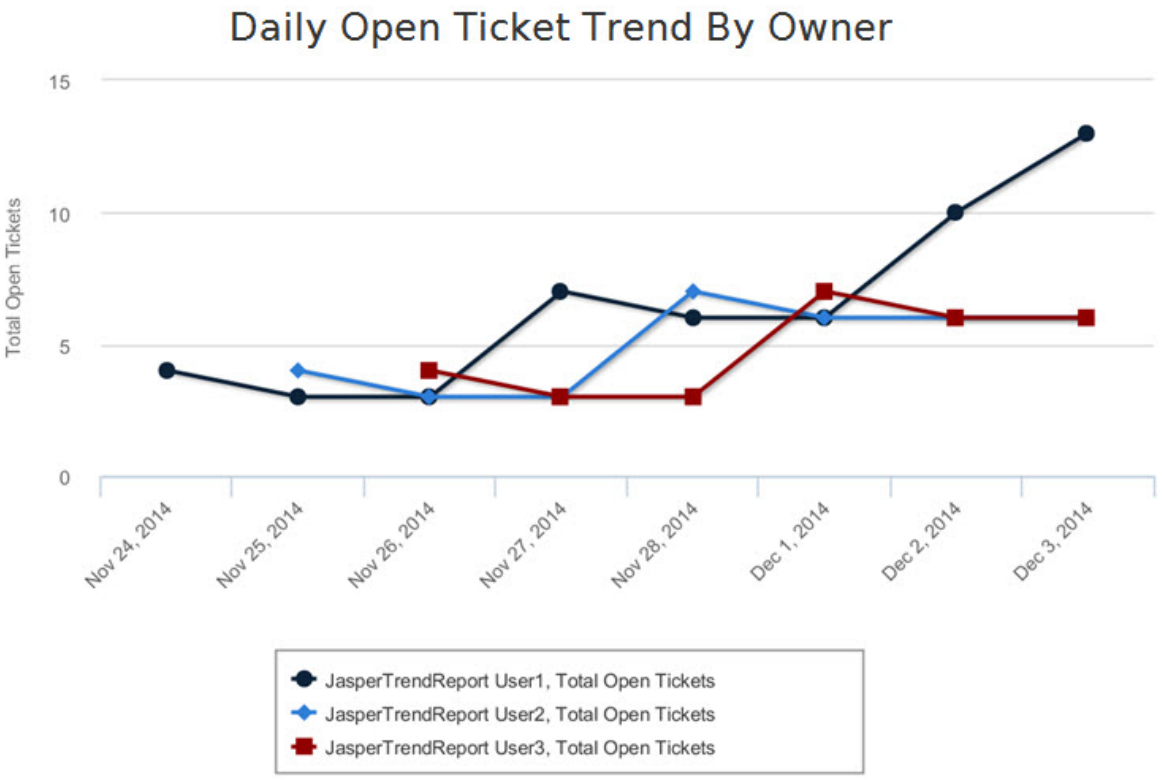


4. Right-click in the **Daily Open Tickets by Owner** report row, and select **Run** in the context menu.

5. After you run the report, click the icon and choose **As PDF** to open the report in a tabbed browser. In the browser (Mozilla), go to **File** > **Save Page** As... to save the report. If you want to export the report as a Word document, click the icon again and choose **As DOCX** to open the report using Microsoft Word. In the Microsoft Word application, go to File > Save to save the report.

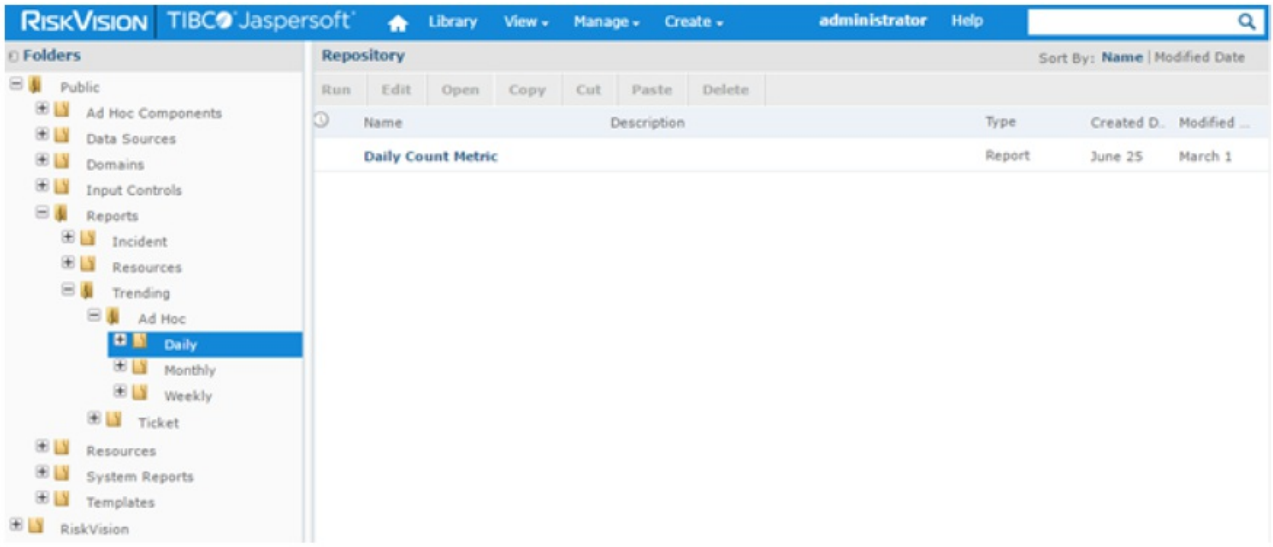


6. After you run the report, click the icon and choose **As PDF** to open the report in a tabbed browser. In the browser (Mozilla), go to **File** > **Save Page** As... to save the report. If you want to export the report as a Word document, click the icon again and choose **As DOCX** to open the report using Microsoft Word. In the Microsoft Word application, go to File > Save to save the report.



Ad Hoc Metric Reports

The ad hoc metric reports are categorized as per the metric collected in the Trending sub-folder under Reports sub-folder in the Public folder.



In the Trending sub-folder based on the data frequency collection the reports are categorized into folders, they are:

- Daily
- Monthly
- Weekly

List of Ad Hoc Metric reports

The list of reports available under the hierarchy is as follows:

- Daily
  - Daily Count Metric
- Monthly
  - Monthly Count Metric
- Weekly
  - NewAssetsSinceLast7Days
  - NewIncidentsSinceLast7Days
  - NewTicketsSinceLast7Days
  - Weekly Count Metric

For the Oracle setup the below mentioned reports will not exist:

- NewAssetsSinceLast7Days
- NewIncidentsSinceLast7Days
- NewTicketsSinceLast7Days

About Trending Custom Queries

The trending_custom_queries.xml file is used to define queries that get executed. Below is the structure of an example ad hoc query in the trending_custom_queries.xml file:

```
 INSERT INTO agl_trending_adhoc ( trending_type, current_interval, collection_time, long1, long2, long3) SELECT ':TASK_KEY', :CURRENT_INTERVAL, current_timestamp(3), asset_count, vuln_count, vuln_count/asset_count FROM (select count(distinct (asset_id)) asset_count, count(distinct(vul- nerability_id)) vuln_count from agl_asset_to_vulnerability a WHERE ((a.av_flags & 3) = 2) ) atv_table ]]>
```

The parts of the entry that must be made for each query in the XML file are as follows:

- ".
- Key - This is the name given to the query. It will be referred to in the Trend- ingSchedulerConfiguration.xml file and in the trending_type column of the agl_trending_adhoc table.
-
- displayName - Indicates what the values placed in the column the displayName is mapped to rep- resent.
-
-]]> - Closing of the CDATA clause.
- - Closing of the query for the entry.

Queries that are created must conform to the following constraints set by the agl_trending_adhoc table columns:

- 8 string values
- 8 long values
- 2 float values
- 2 boolean values

Ad Hoc Trending Metrics

The Ad Hoc Metrics feature provides a means to trend virtually any query, provided it fits within the constraints imposed by the table that the query results are written to, the agl_trending_adhoc table. The feature works by automatically executing queries in one XML file, the trending_custom_queries.xml file, that are enabled in another XML file, the TrendingSchedulerConfiguration.xml file. These queries can be executed on a daily, weekly, or monthly basis. The frequency can be set in the TrendingSchedulerConfiguration.xml file or in the RiskVision user interface by going to the Administration -> Scheduled Jobs page and scheduling the **Trending Data Collection for Ad Hoc Views** job to the desired interval. Before providing instructions for enabling existing queries and creating new ones, we will provide an overview of the files used to define the queries and control their execution, the trending_custom_queries.xml and TrendingSchedulerConfiguration.xml files.

Scheduler

The Scheduler can create multiple jobs for an individual report. This means you can schedule the same report multiple times to run individually at a specified future date and time. In JasperReports Server, a user who creates a schedule can view, modify, stop or delete a scheduled job as well. Each scheduled output can be incorporated with a date and time stamp to determine when the report was run. When a scheduled report fails, JasperReports Server notifies you through internal messages to help you understand the reason behind the scheduling problem.

To familiarize yourself with JasperReports Server Scheduler, see Scheduling a Report in JasperReports Scheduler and Modifying a Scheduled Job.

In order to explore more advanced features and options in the JasperReports Server Scheduler, refer to the sections "Viewing Schedule Jobs," "Scheduling a Report," "Specifying Job Recurrence," "Changing Job Schedules," "Stopping a Job from Running," "Running a Job in the Background," "Adding a Date/Time Stamp to Scheduled Output," and "Event Messages" in the *JasperReports-Server-User-Guide*.

Modify Drill-Down Reports

As of RiskVision version 9.3.5, drill-down reports will now render in five seconds or less. In order to leverage these performance improvements, the `$P{REPORT_SCRIPTLET}.getEncryptedIdString` property must be removed from the report's code. When creating a new report, simply do not add this property during the creation process. For pre-existing reports, there are a few more steps to follow.

To modify existing reports:

1. Export the desired drill-down report zip file. The exact location will vary from user to user. For example, the report file could be located in the **exportAllApp\resources\organizations\Agiliance\Reports\POC_Reports\Chevron\All_Vulnerabilities_by_Application_files** folder.
2. Open the **jrxml.data** file.
3. Search for **jsp**.
4. Remove the `$P{REPORT_SCRIPTLET}.getEncryptedIdString` property from every line of code containing **jsp**.
5. Save the file.
6. Re-zip the report and re-import it. The corresponding report will now render faster.

Enable Drilldown Reporting Regardless of Encryption

In the past, if ID encryption was enabled on the RiskVision side, it had to be enabled on the Jasper side or drilldown reports wouldn't work. Now, users can generate a drilldown report whether or not encryption settings have been enabled for Jasper.

To adjust the settings to allow for drilldown reporting:

1. Navigate to and open the **agiliance.properties** files in both the Jasper and RiskVision folders.
2. Set the properties as follows depending on the result you want to achieve:
    a. To generate a report with encryption:
        - Jasper:
          `com.agiliance.common.utils.idencryption.skipencryption=false`
        - RiskVision:
          `com.agiliance.common.utils.idencryption.skipencryption=false`
          `com.agiliance.common.utils.idencryption.acceptPlainIdString=false`

    b. To generate a report without encryption:
        - Jasper:
          `com.agiliance.common.utils.idencryption.skipencryption=true`
        - RiskVision:
          `com.agiliance.common.utils.idencryption.skipencryption=true or false`
          `com.agiliance.common.utils.idencryption.acceptPlainIdString=true`
3. Save and close the files.

Predefined Reports in JasperReports Server

RiskVision has provided a number of predefined reports in the JasperReports Server. These predefined reports assists in functionality such as being able to export a report to a wide variety of outputs (PDF, Excel, RTF, CSV, DOC, XLSX, and so forth) and an option to send a report to many recipients when scheduling a report. Also, predefined reports can be copied to a folder in the repository so that it can be tailored using the iReport Designer Professional application to alter a report according to your preferences.

In JasperReports Server, the predefined reports are found in the **Reports** sub folder of the Public folder on the **View** > **Repository** menu.

Predefined reports exist for the following RiskVision objects:

- Assessment
- Incident
- Policy
- Program

Disclaimer: Please be aware that sections explaining the Jaspersoft report creation or scheduling features are intended to provide an overview of essential Jaspersoft functionality that relates to RiskVision. It is not intended to provide a thorough discussion of the full range of Jaspersoft features. Therefore, RiskVision recommends referencing the JasperReports Server documentation for exploring more advanced features and options.

Running Predefined Reports In JasperReports Server

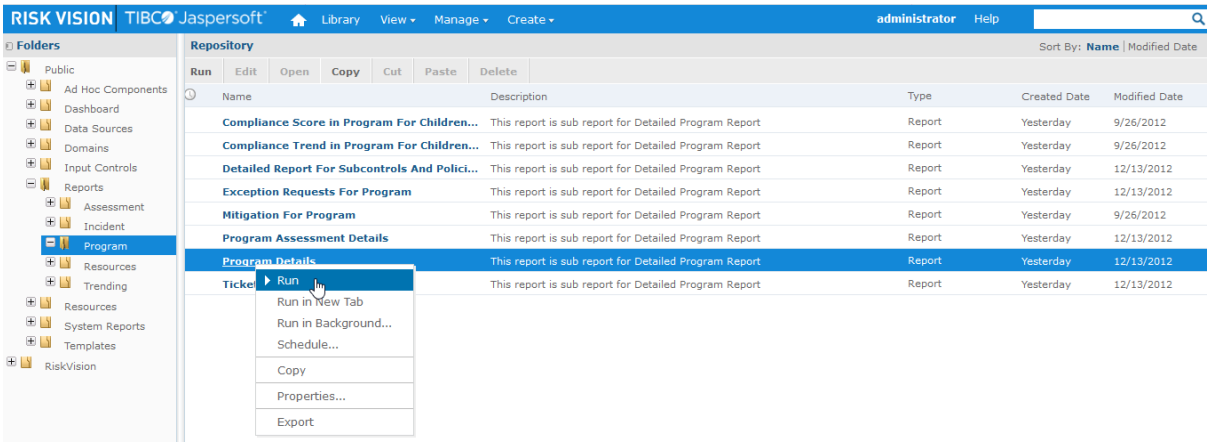
To run a predefined report in JasperReports Server, your RiskVision role must have the Dashboards and Reports Author permission.

Scenario: Guard First is a major health care and medical center specialized in curing short-term illness and provides unique health insurance. As a program owner at Guard First, you are given a task to present a report on the assessment details of the 'GF_Risk_Audit' program and submit the report in the PDF and DOCX formats. To accomplish your task, you will run the 'Program Assessment Details' predefined report.

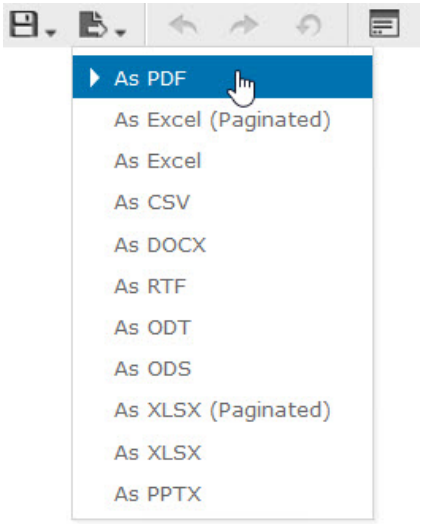
The rest of this section provides the procedural steps that describes how to run the 'Program Assessment Details' predefined report.

To view or run a predefined report:

1. **Go to Analytics > Analytics and Reporting to launch the JasperReports Server.**
2. Go to **View** > **Repository**, expand the Reports folder that is present in the **Public** folder, and select the **Program** folder to display the list of reports.



3. Because your goal is to view the assessment details of the 'GF_Risk_Audit' program, right-click in the Program Assessment Details report row, and select **Run** in the context menu.
4. A few predefined reports such as **Program Assessment Details** and **Program Details**, require input parameters before they display the data. When the **Input Controls** prompt box appears, click the drop-down box to choose 'GF_Risk_Audit,' and Click **OK** to display the report. Click **Apply** to preview the report data in the background of **Input Controls** prompt box.
5. If the report that is displayed is spanned across several pages, you will find arrows at the top or bottom of report view. Click arrows to go to next or the previous page, or first or last page of the report.
6. After you run the report, click the  icon and choose **As PDF** to open the report in a tabbed browser. In the browser (Mozilla), go to **File** > **Save Page As...** to save the report. Click the  icon again and choose **As DOCX** to open the report using Microsoft Word. In the Microsoft Word application, go to **File** > **Save** to save the report.



Program Assessment Details

Assessment	Asset Type	Compliance Score	Current Status	Owner
GF_Payment	Application	50.0	ERM Data Gathering	nathan astle
GF_Health_Record	Data	70.0	ERM Data Gathering	nathan astle

7. Optional. If you want to modify the report results, click the  icon to bring up the **Input Controls** prompt box. Choose a filter value to view another program assessment details and click **OK**.

Working with the Ad Hoc Editor

You can create custom reports using the Ad Hoc Editor if predefined reports do not meet your report objective. Creating an Ad Hoc report requires a predefined or custom-created dmain.

RiskVision recommends obtaining the JasperReports Server domain relationship diagrams from the RiskVision administrator in order to understand the relationship between the tables if you are creating an ad hoc report using the predefined domains.

Creating An Ad Hoc Table Report

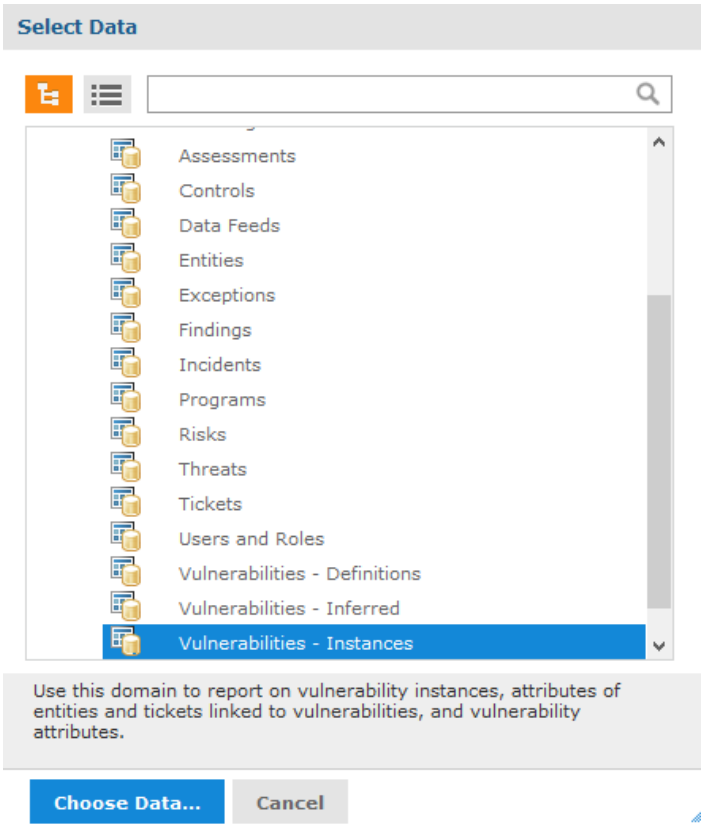
Scenario: As an Application Security Specialist at Guard First, you are given a task to prepare a table report that shows the number of vulnerabilities reported by scanners. To meet this report objective, you will need to use the 'Vulnerabilities (Instances)' domain.

The rest of this section provides the procedural steps that will help you create an Ad Hoc table report using the 'Vulnerabilities (Instances)' domain.

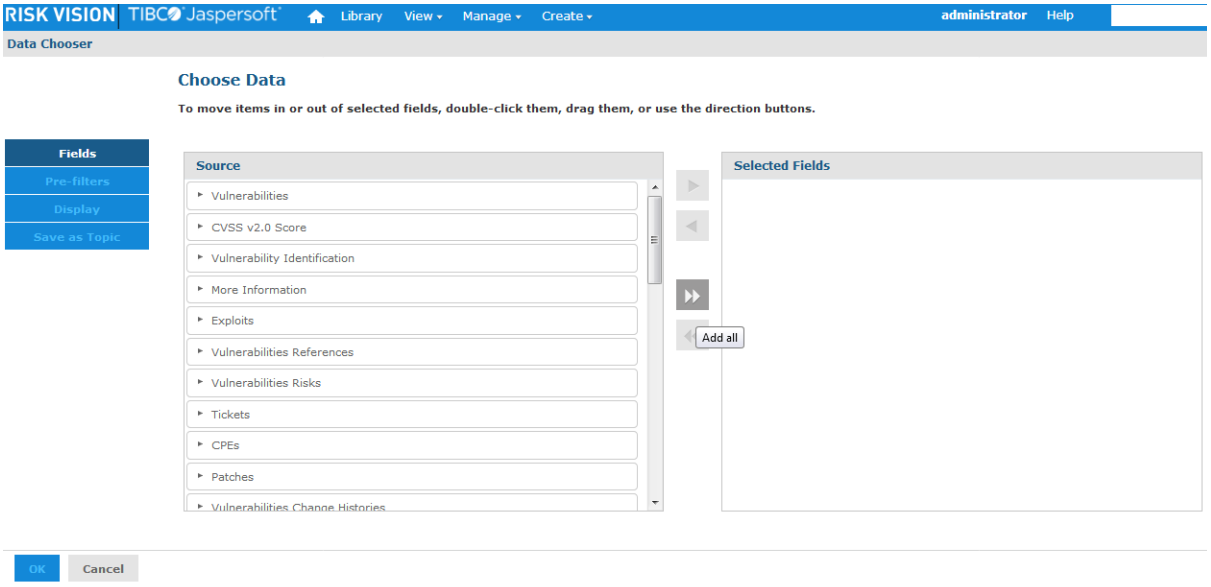
To create a table report:

1. Go to **Analytics > Analytics and Reporting** to launch the **JasperReports** Server.
2. On the **Create** menu, click **Ad Hoc View**.
3. The **Data Chooser**: Source dialog appears. Click the **Domains**, locate and select the **Vulnerabilities (Instances)** domain, and click **Choose Data**.

   recommends selecting the data source as topic if you have previously created an ad hoc report using a domain and want to build a new report from the topic that you saved earlier.



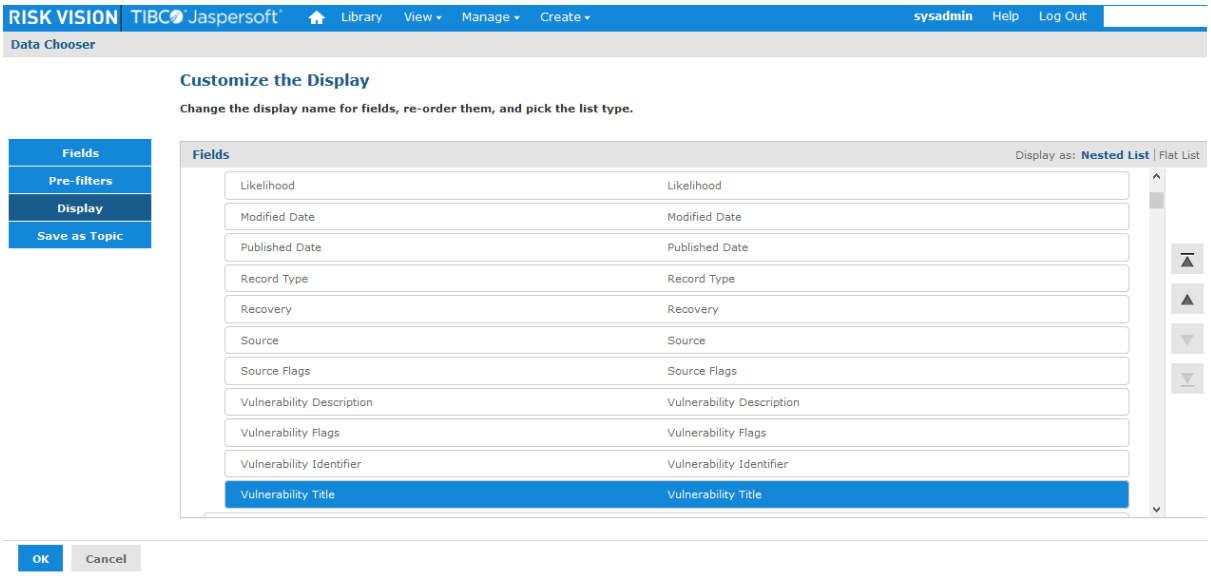
4. The **Data Chooser...** options appear when the **Fields** tab is selected. On the **Fields** tab, the **Source** box lists the tables present in the 'Vulnerabilities - Instances domain. To select fields or tables, you can drag, double-click, or Ctrl-click and click **>** to move items to the **Selected Fields** box. Double-click the 'Entity' and 'Vulnerability' tables to move all fields from these two tables to the**Selected Fields** box.



5. Optional. Click the **Pre-filters** tab to create a filter using the selected fields. By creating a filter, you are restricting the data that appears in the report. To create a filter, expand a table, and double-click the field. After the field appears in the **Filters** pane, select the drop-down list next to the field to choose the type of operation, choose the field value, and click **OK**. Click **Cancel** to remove the filter.

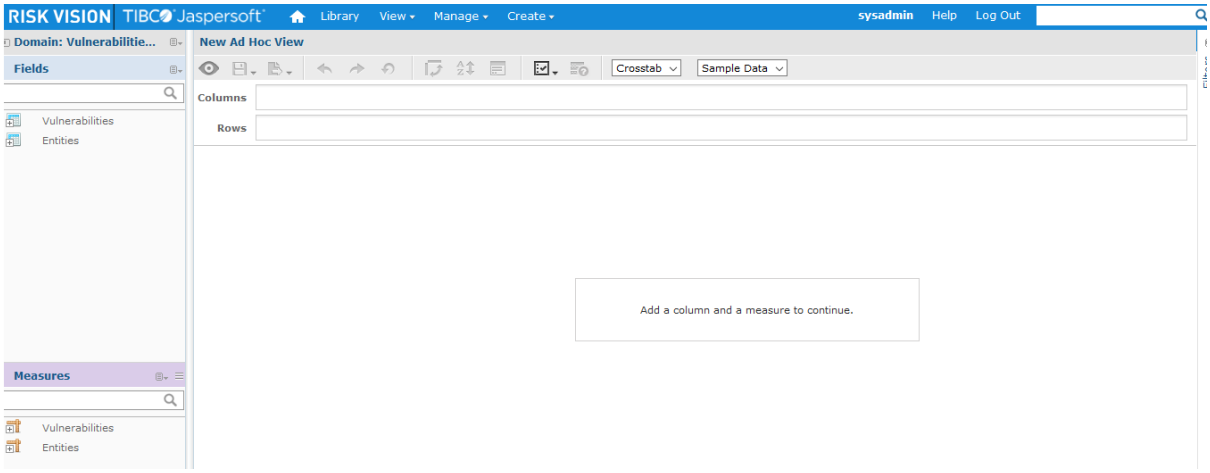
   You can create filters in the Report Editor.

6. Optional. Click the **Display** tab to change the display name and list type for the fields, and to re-order them. To change the display name, double-click the field, and rename it. To re-order the field hierarchy, select the appropriate list type, and use up or down arrows to move up or down. Use arrows that are pointing to the horizontal line to move fields to the top or bottom.

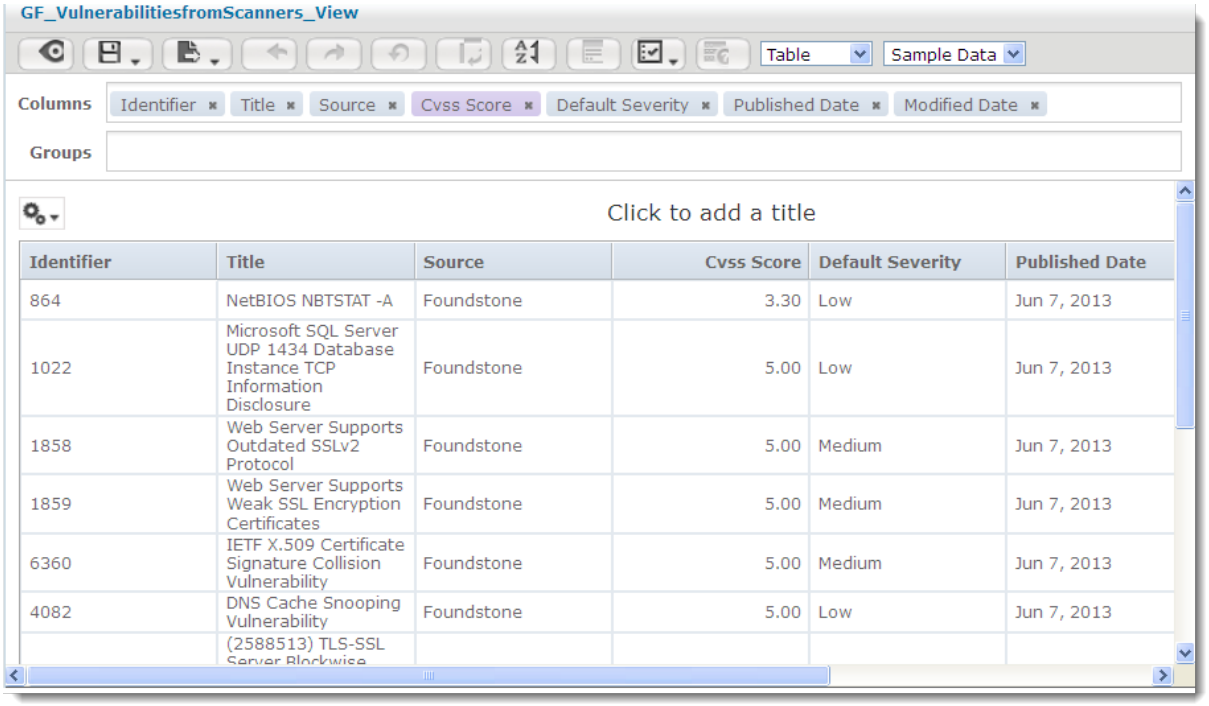


7. Click the **Save as Topic** tab to save the topic for later use. Enter 'GF_Vulnerability_Data' in the Name field (required)for the topic, optionally enter description in the **Description**field, and click **Browse** to choose a location in the repository where the topic will be saved for reuse. By default, the topic will be saved to the `\adhoc\topics` location in the repository.

8. After specifying all the details on the tabs, click **Table**.
9. The **Ad Hoc Editor** appears. In the **Fields** pane, expand the tables, and ctrl-click the fields: **Title, Identifier, Source, Cvss Score, Default Severity,Modified Date, and Published Date** to drag them into the **Columns** layout band. To select a field, you can also right-click the field, and choose **Add as Group** or **Add as Column**. Whenever you add field(s), the JasperReports Server simultaneously updates the data in the report.



10. Select **Full Data** in the drop-down list to view the entire data in ad hoc editor. Now that you have added the fields, the unformatted report appears as:



Identifier	Title	Source	Cvss Score	Default Severity	Published Date
864	NetBIOS NBTSTAT -A	Foundstone	3.30	Low	Jun 7, 2013
1022	Microsoft SQL Server UDP 1434 Database Instance TCP Information Disclosure	Foundstone	5.00	Low	Jun 7, 2013
1858	Web Server Supports Outdated SSLv2 Protocol	Foundstone	5.00	Medium	Jun 7, 2013
1859	Web Server Supports Weak SSL Encryption Certificates	Foundstone	5.00	Medium	Jun 7, 2013
6360	IETF X.509 Certificate Signature Collision Vulnerability	Foundstone	5.00	Medium	Jun 7, 2013
4082	DNS Cache Snooping Vulnerability	Foundstone	5.00	Low	Jun 7, 2013
	(2588513) TLS-SSL Server Blockwise				

11. Click the  icon and choose **Save Ad Hoc View and Create Report**. In the **Save Ad Hoc View** and **Create Report** dialog, enter 'GF_VulnerabilitiesfromScannersr' in the **Data View (required)**field and enter a name in **Report Name (required)**field.

Formatting The Appearance Of A Tabular Report

After you create the 'GF_VulnerabilitiesfromScanners' data view, the appearance can be improved; by changing the labels, formatting the fields, adding space between columns, and so on.

The rest of this section will help you understand how to format the 'GF_VulnerabilitiesfromScanners' data view.

To format the table report:

1. Optional. To open the report,
    1. In the JasperReports Server, click **Search Results** on the **View** menu. In the **Search**field, enter the view name, and click the search icon. The Search results appear, displaying reports and views that match the search criteria.

       Or

       If you know the location of view in the repository, go to **View** > **Repository** menu.

    2. After you locate the ad hoc view, click the view, or right-click in the view row and choose**Open** in the context menu.

2. Optional. At the top of the **Fields** pane, click and choose **Change Source** or **Select Fields**. If you choose **Change Source** and perform any changes, all the report data and its formatting is lost. Hence, it is recommended to preserve the source. To add or remove fields, choose **Select Fields**. You can remove those fields which are not in use in the report.
3. At the top of table, click the text **Click to add a title**and enter the title as 'Vulnerabilities from Scanners.'
4. Optional. To change the display name of a table column, right-click the column, and choose **Edit Label** in the context menu. Enter a new display name in the label field and click **Submit**. Similarly, change the display name for other columns.
5. Optional. If a column name is lengthy and occupying more space than its data, right-click the field and choose **Delete Label** in the context menu. However, the label is not displayed when you run the report.
6. In **Measures**, select the **Spacer** and drag-and-drop into the table before the 'Identifier' column to add space to; help you read data easily. Similarly, add a Spacer to adjust the spacing for **Source** and **Cvss Score** columns as well.
7. Mouse over the column,and move the mouse to the column border. When the splitter appears, hold the left-click and drag the mouse left or right to adjust the column width. This enables the report to fit within the margins of the page layout.
8. Optional. Right-click a column in the report and choose**Move Left** or **Move Right** move a column left or right in the table.
9. Optional. For fields displaying date, right-click in the column, go to **Change Date Format** in the context menu, and choose a format, Oct 16, 2012 9:43:42 PM, for example.
10. Now that you have applied the formatting, the 'GF_VulnerabilitiesfromScanners' table report appears as:
11.

Vulnerabilities from Scanners

Identifier	Title	Source	Cvss Score	Default Severity	Published Date	Modified Date
864	NetBIOS NBTSTAT -A	Foundstone	3.30	Low	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
1022	Microsoft SQL Server UDP 1434 Database Instance TCP Information Disclosure	Foundstone	5.00	Low	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
1858	Web Server Supports Outdated SSLv2 Protocol	Foundstone	5.00	Medium	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
1859	Web Server Supports Weak SSL Encryption Certificates	Foundstone	5.00	Medium	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
6360	IETF X.509 Certificate Signature Collision Vulnerability	Foundstone	5.00	Medium	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
4082	DNS Cache Snooping Vulnerability	Foundstone	5.00	Low	Jun 7, 2013 11:59:37 AM	Jun 7, 2013
12690	(2588513) TLS-SSL Server Blockwise Chosen-Boundary Browser Weakness	Foundstone	4.30	Medium	Jun 7, 2013 11:59:37 AM	Jun 7, 2013

12. Click the  icon and choose **Save Ad Hoc View** to save the view.

Limitation

When a table report containing a column displaying the Ids of an object is exported to save in the .xls format, the IDs in the cells will be changed to zeros by the Microsoft(R) Excel application if an Id is more than 15 digits long.

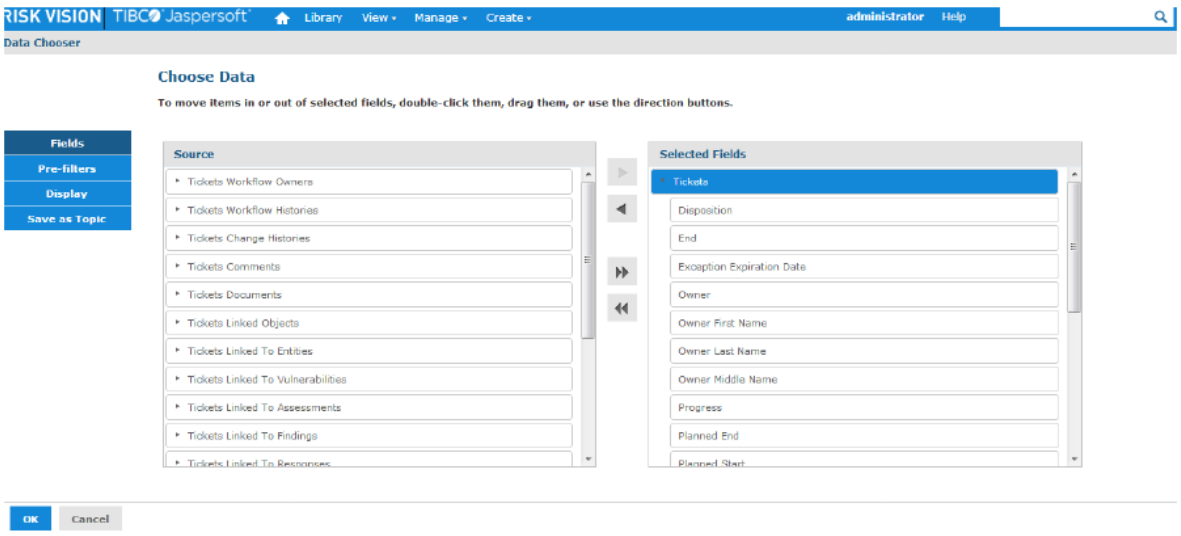
Creating An Ad Hoc Chart Report

Scenario for Ad-Hoc chart report: As a ticket administrator at Guard First, you will monitor the progress of tickets created by stakeholders of ongoing assessments. As part of your responsibilities, you are given a task to produce a chart report that shows the number of tickets owned by stakeholders. To meet this report objective, you will need to use the 'Tickets (Detail)' predefined domain.

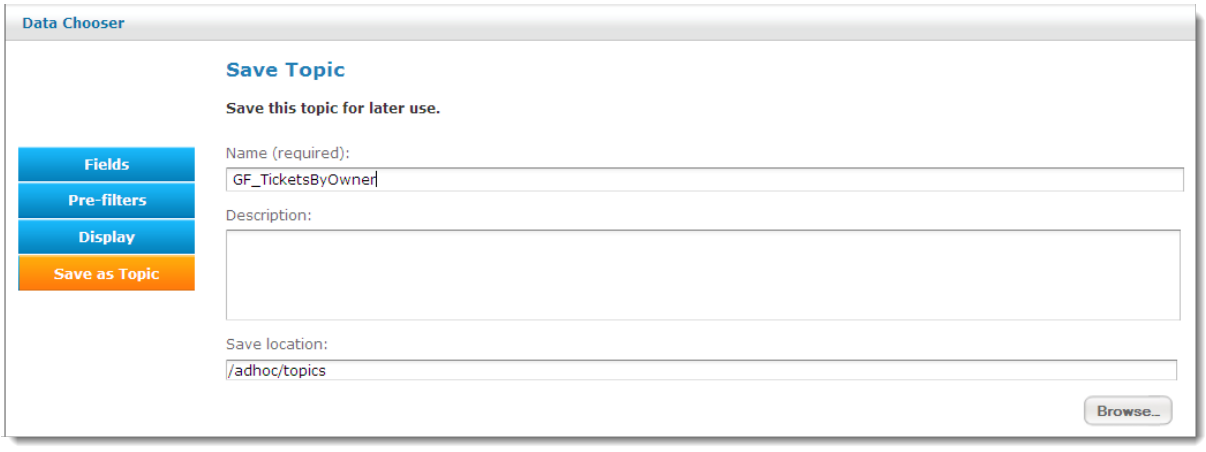
The rest of this section describes the procedural steps to create a chart report using the 'Tickets (Detail)' domain.

To create a chart report:

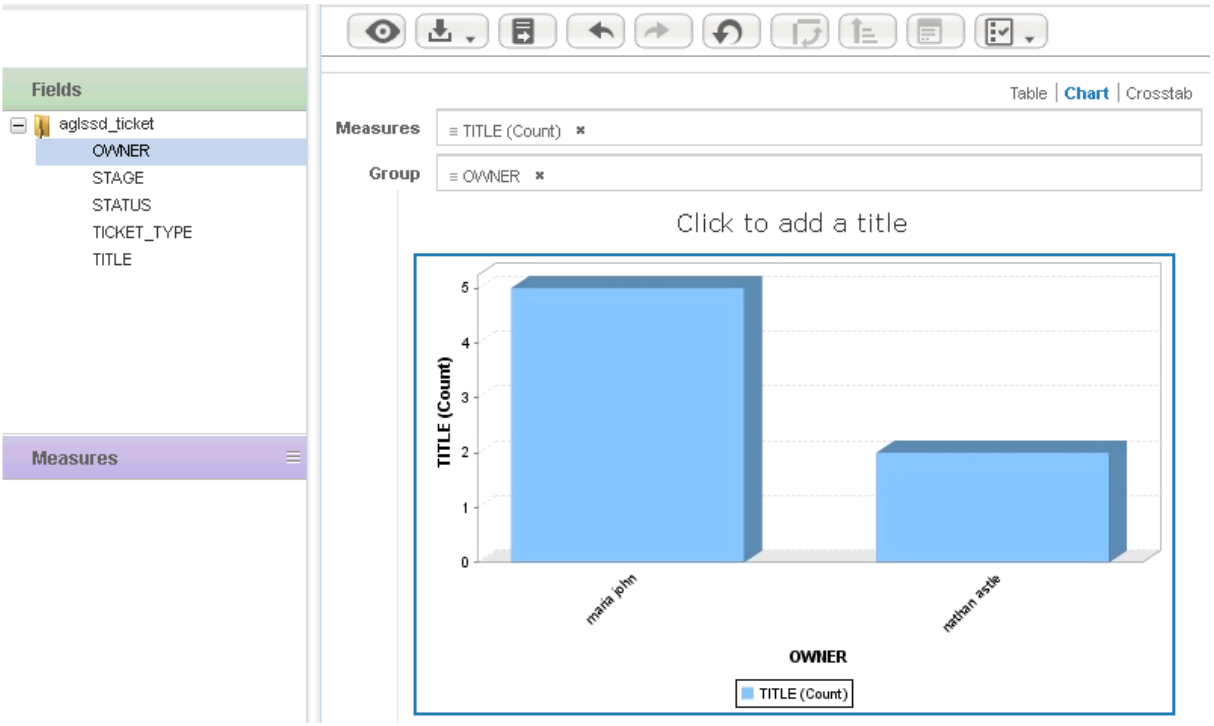
1. Go to **Analytics > Analytics and Reporting** to launch the JasperReports Server.
2. On the **Create** menu, click **Ad Hoc View**.
3. The **Data Chooser** page appears. Click **Domains**, locate the 'Tickets (Detail)' domain, and select it. After selecting the domain, click **Choose Data**.
4. The **Data Chooser** options appear with the **Fields** tab selected. On the **Fields** tab, expand the 'aglssd_ticket' table in the **Selected Fields** pane, Ctrl-click the Owner, Progress, Status, Ticket Type, and 'Title fields, and click > at the top between the source and selected fields pane to move the fields to the Selected fields box. Click < arrow to remove the selection.



5. Click the **Save as Topic** tab to save the topic for later use. Enter 'GF_TicketsByOwner' in the **Name (required)** field. Optionally enter description in the **Description** field, and click **Browse** to choose a location in the repository for the topic. By default, the topic will be saved to the `\adhoc\topics` location in the repository.



6. After specifying the required details on all tabs, click **Chart**.
7. The **Ad Hoc Editor** appears. In the **Fields** pane, drag the **OWNER** field in the **Group** layout, and drag the **TITLE** field in the column layout. After you drag the fields, a 3D Bar chart is created by default. The unformatted 3D Bar chart appears as:



8. Click the  icon and choose **Save Ad Hoc View and Create Report** In the **Save Ad Hoc View and Create Report** dialog, enter 'GF_TicketsByOwner' in the **Data View (required)**field and enter a name in **Report Name (required)**field

Formatting The Appearance Of Chart Report

You will learn now how to format the 'GF_TicketsByOwner' data view. By default, the chart report represents the data using a 3D bar chart. You will be shown how to convert the bar chart to other forms of charts, such as Pie and Line.

The rest of this section will help you understand how to format the 'GF_TicketsByOwner' bar chart view.

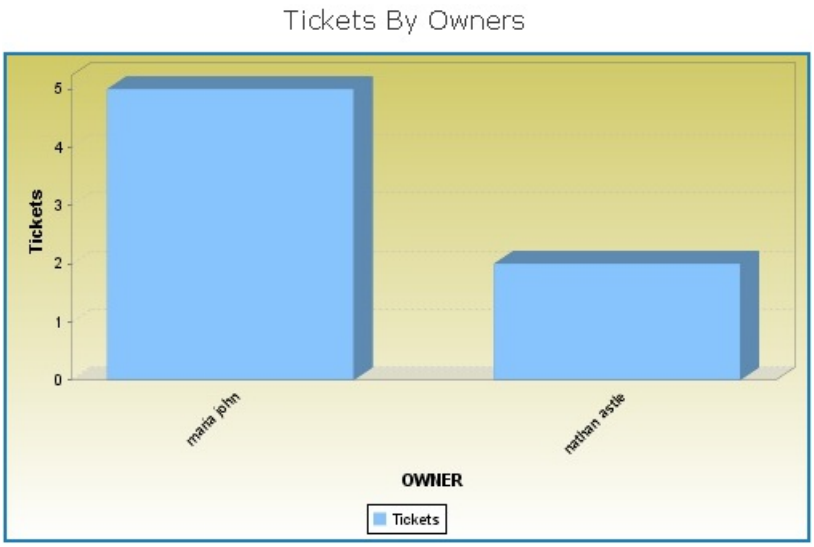
To format the bar chart:

1. Optional. To open the data view,
    1. In the JasperReports Server, go to **View > Search Results**. In the Search field, enter the data view name, and click the search icon. The Search results appear, displaying reports and data views that match the search criteria.

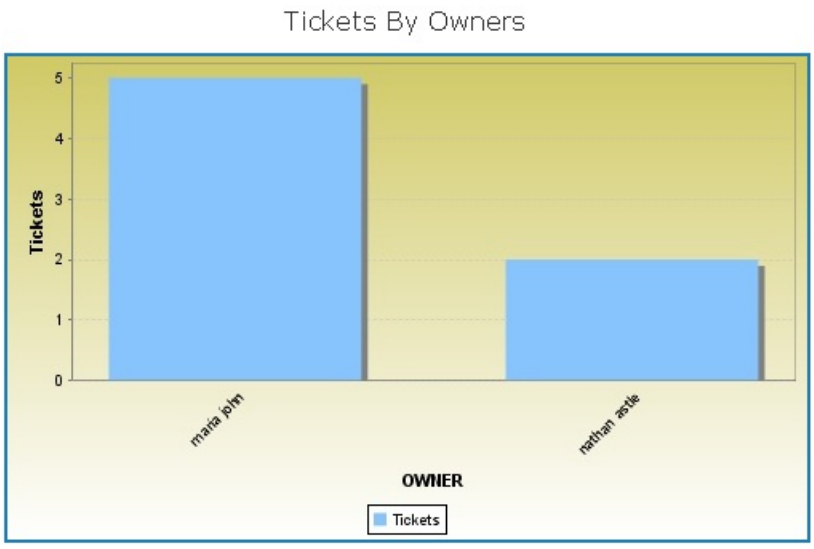
       Or

       If you know the location of report in the repository, go to **View > Repository** menu.

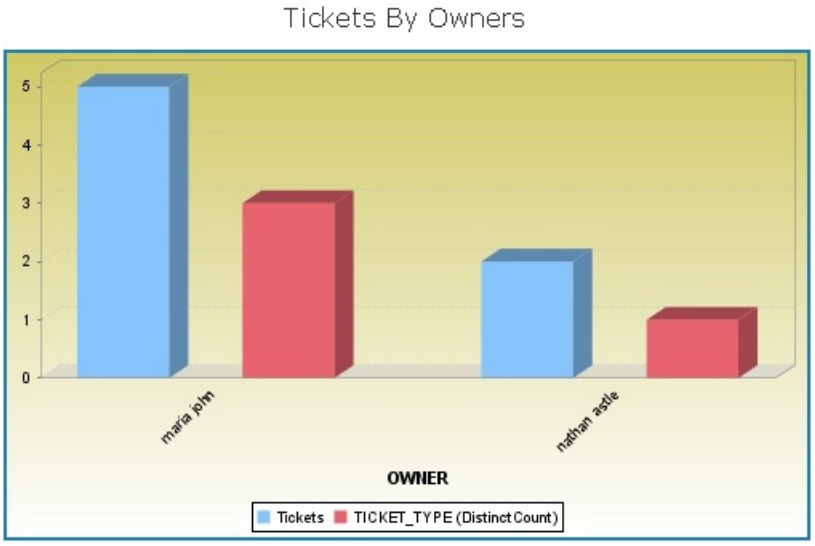
    2. After you locate the ad hoc view, click the view, or right-click the report, and choose**Open** in the context menu.
2. At the top of bar chart, click the text **Click to add a title**and enter the title as 'Tickets By Owners.'
3. In the **Measures** layout band, right-click the 'TITLE field, and choose **Edit Legend Label** in the context menu. Enter 'Tickets' in the Label field, and click **Submit**.
4. Optional. To add or remove fields:
    - In the Measures or Group layout band, click X next to a field to remove the fields.
    - Right-click a field, choose Add as Measure in the context menu to add a field to the Measure layout band, or choose Replace Group in the context menu to replace the group in the Group layout band.
    - Right-click in the chart area, and choose Remove Group in the context menu.
5. By default, measure and group labels and legend are displayed in the chart area. To hide labels and legend, right-click in the chart area, mouse over the Legend and Labels in the context menu, and choose one of the options: Measures Title, Group Title, or Legend.
6. Right-click in the chart area, mouse over the Display Options in the context menu, and choose Fill Background to apply the background color for the chart.
7. Go to the right bottom in the chart area, and when the  icon appears, left-click the icon, and drag the mouse to resize the chart area. After you finish formatting, the 3D Bar chart appears as:



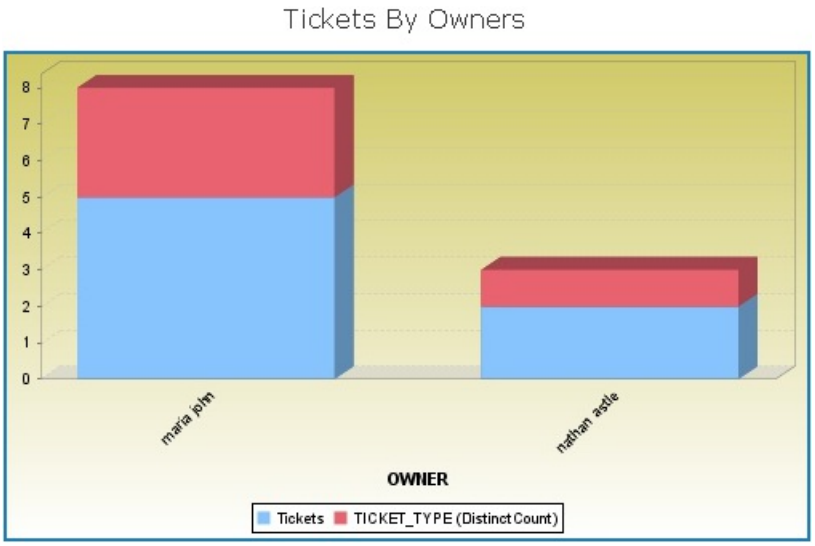
8. Right-click in the chart area, mouse over the **Display Options** in the context menu, and choose **Flat Bars**. The Flat Bar chart appears as:



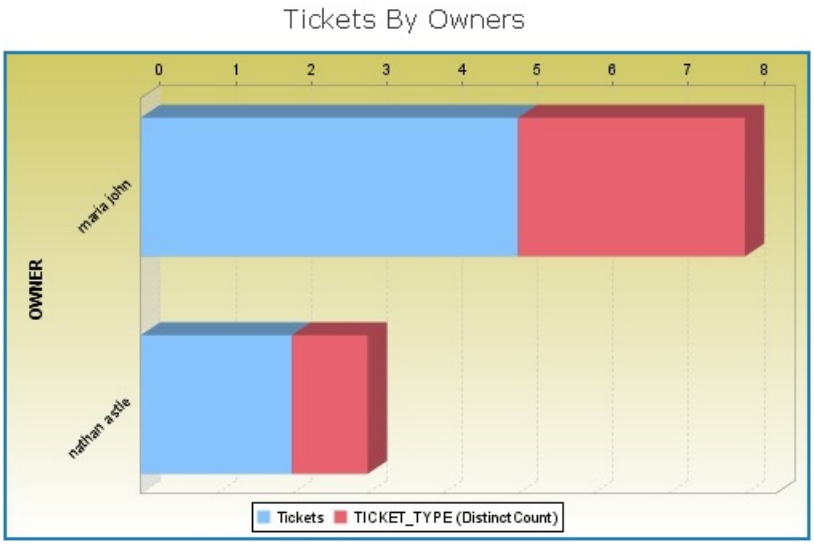
9. Now, drag the **TICKET_TYPE**field in the **Measures** layout band. Right-click the **TICKET_TYPE**field, mouse hover the **Change Summary Function** in the context menu, and choose **Distinct Count**. The Simple Series 3D Bar chart appears as:



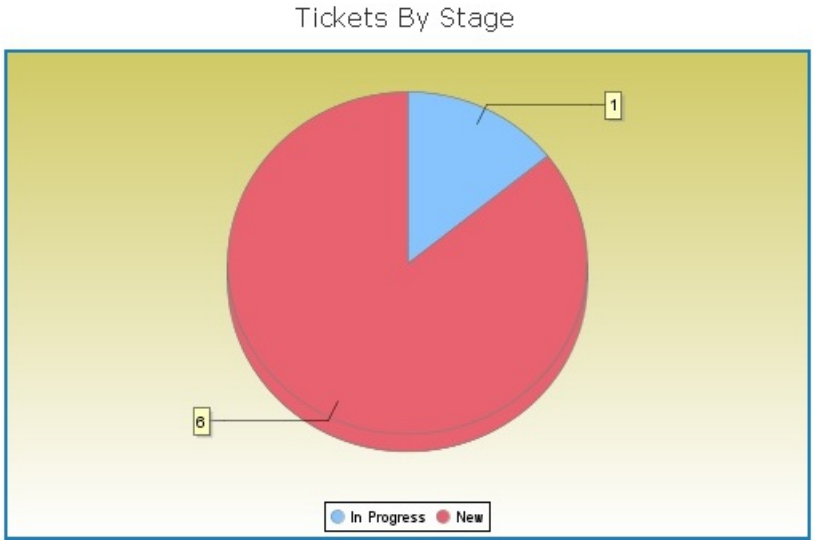
10. Right-click in the chart area, mouse hover the **Display Options** in the context menu, and choose **Stacked Series**. The Stacked Series 3D Bar chart appears as:



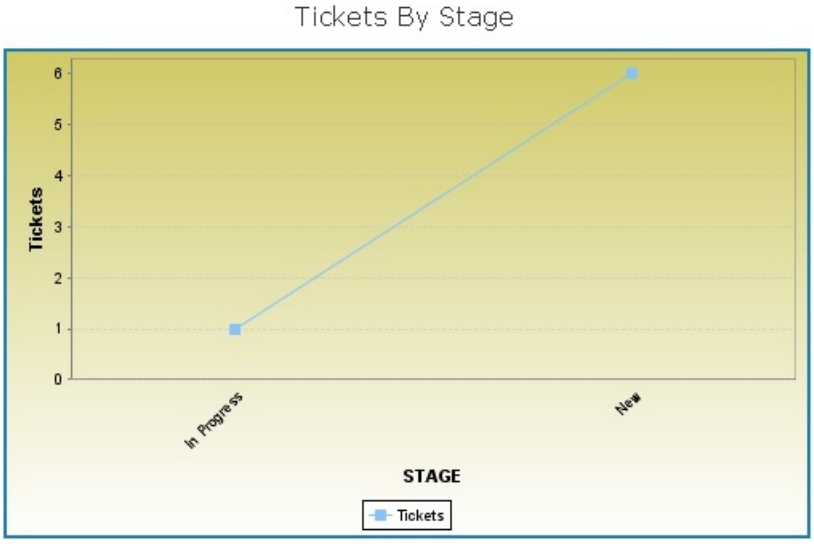
11. Right-click in the chart area, mouse over the **Display Options** in the context menu, and choose **Horizontal Bars**. The Horizontal 3D Bar chart appears as:



12. Now, drag the **STAGE** field in the **Group** layout band to replace the **OWNER**field, and click **X** next to **TICKET_TYPE**to remove the field.
13. Right-click in the chart area, mouse over the **Display Options** in the context menu, and choose **Horizontal Bars**. The Horizontal 3D Bar chart appears as:



14. Right-click the chart, mouse hover the **Change Chart Type** in the context menu, and choose **Pie**. The Pie chart appears as:



15. Click  and choose **Save Report** to save the report. Choose **Save Report As...** to save the report separately for each chart type.

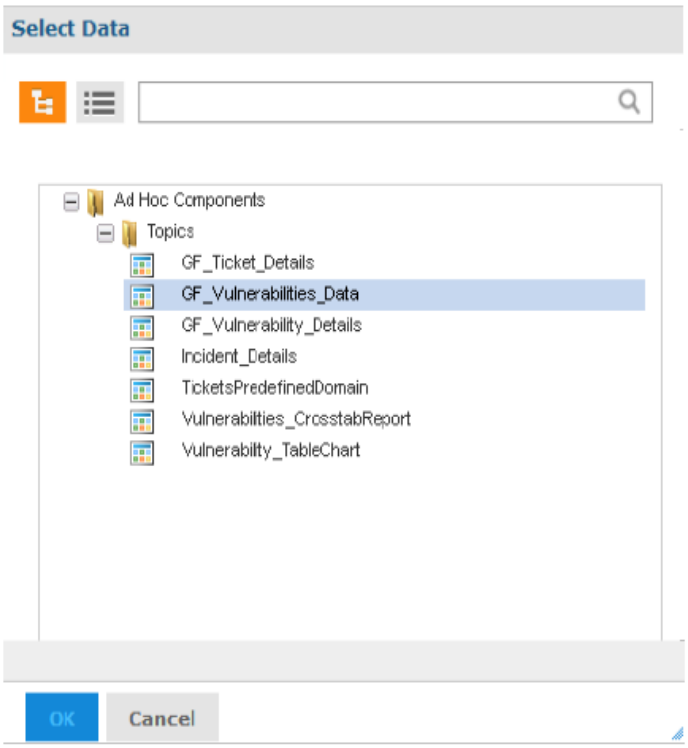
Creating An Ad Hoc Crosstab Report

Scenario: As an Application Security Specialist at Guard First, you are given the task of creating a crosstab report that shows the list of entities affected by number of the vulnerabilities grouped by vulnerability severity. To meet this report objective, you must use the Vulnerabilities (Instances)' domain.

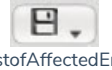
The rest of this section provides the procedural steps that describes how to create a crosstab report using the 'Vulnerabilities (Instances)' domain.

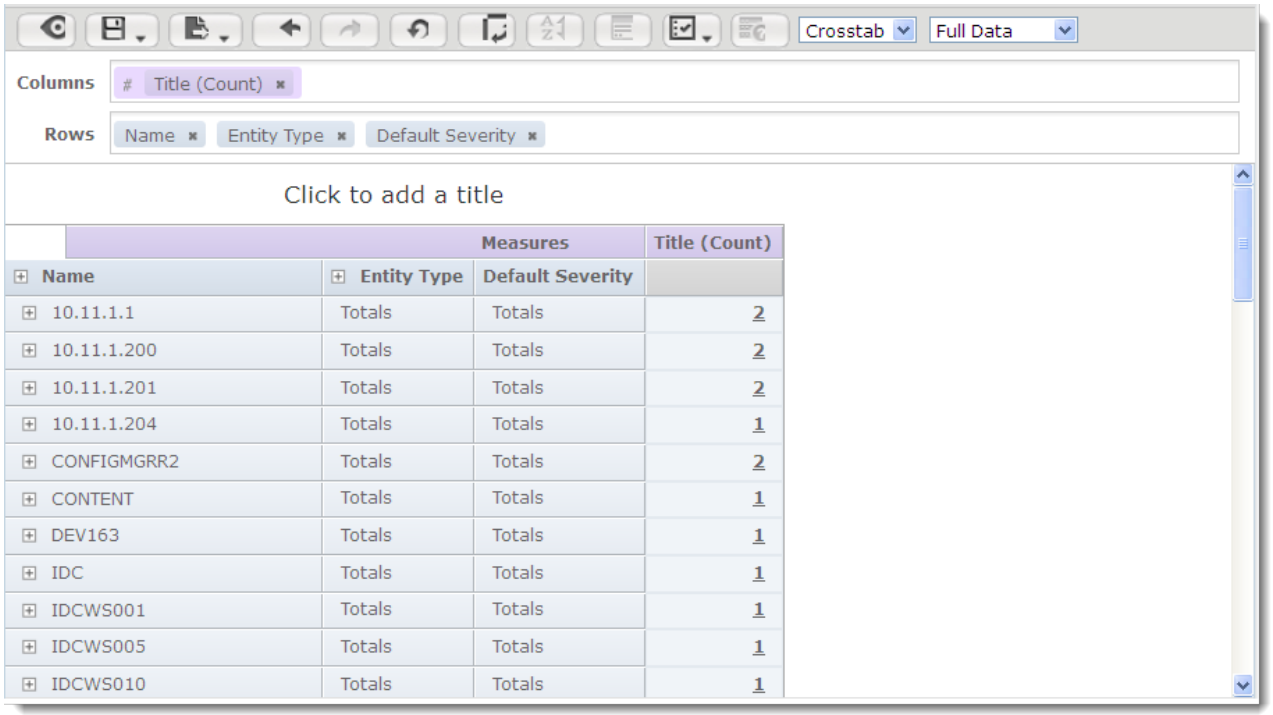
To create a crosstab report:

1. Perform the following steps:
   - Go to Analytics > Analytics and Reporting to launch the JasperReports Server.
   - On the Create menu, click Ad Hoc View.
   - The Data Chooser: Source dialog appears. Click Topics, locate and select the GF_Vulnerabilities_Data topic, and click Crosstab. The GF_Vulnerabilities_Data topic was saved while creating the 'VulnerabilitiesfromScanners' ad hoc table report. You are using this topic because the fields available in the 'GF_Vulnerabilities_Data' topic are sufficient to meet the crosstab report scenario.



   - Click the  icon, choose **Save Ad Hoc View As...**, and enter 'ListofAffectedEntities' in the **Data View Name (required)**field. Choose a folder in the repository where you want to save the report and click **Save** to save the report. The data view is saved as 'ListofAffectedEntities.'

2. OR
   - After you finish creating and formatting the 'VulnerabilitiesfromScanners' data view, save the report and data view before you start creating a crosstab report.
   - Click the  icon and choose **Save Ad Hoc View and Create Report** In the **Save Ad Hoc View and Create Report** dialog, enter 'ListofAffectedEntities' in the **Data View (required)**field and enter a name in **Report Name (required)**field. Choose a folder in the repository where you want to save the report and click **Save** to save the report. The data view and report is saved.
   - Click **Crosstab** to change the report layout and remove the fields present in the Columns and Group layout band.
3. In the **Ad Hoc Editor**, go to the **Fields** pane, expand the 'Vulnerability' table, and drag the **Default Severity**field to the **Rows** layout. Now, expand the 'Entity' table, drag the **Name**and **Entity Type**fields in the **Rows** layout.
4. Go to the 'Vulnerability' table, right-click the **Title**field, and choose **Use as Measure** in the context menu. The **Title**field is added to the **Measures** pane.
5. Go to the **Measures** pane and drag the**Title**field in the **Columns** layout band.
6. The unformatted crosstab report appears as:



		Measures	Title (Count)
Name	Entity Type	Default Severity	
10.11.1.1	Totals	Totals	2
10.11.1.200	Totals	Totals	2
10.11.1.201	Totals	Totals	2
10.11.1.204	Totals	Totals	1
CONFIGMGRR2	Totals	Totals	2
CONTENT	Totals	Totals	1
DEV163	Totals	Totals	1
IDC	Totals	Totals	1
IDCWS001	Totals	Totals	1
IDCWS005	Totals	Totals	1
IDCWS010	Totals	Totals	1

Formatting The Appearance Of Crosstab Report

This section will help you understand how to format the 'ListofAffectedEntities' crosstab report.

To format the crosstab report:

1. Optional. To open the report:
    1. In the JasperReports Server, go to View > Search Results menu. In the Search field, enter the view name, and click the search icon. The Search results appear, displaying the reports and views that match the search criteria.

       Or

       If you know the location of view in the repository, go to View > Repository.

    2. After you locate the ad hoc view, click the view, or right-click the report, and choose Open in the context menu.
2. At the top of the crosstab report, click the text Click to add a title, and enter the title as 'List of entities affected by number of vulnerabilities grouped by severity.'
3. By default, the data associated with the rows and columns are hidden. To make the data visible, right-click the Name field in the table, and choose Expand Members in the context menu. Similarly, expand the Entity Type and Default Severity fields in the crosstab report.
4. By default, the row and column summary is added to the crosstab report. You can add or delete the row and column summary to add more meaning to the report. Right-click the Entity Type field in the table and choose Delete Row Summary in the context menu to remove the summary at the end of each entity type.
5. After formatting, the 'ListofAffectedEntities' report appears as:

List of entities affected by number of vulnerabilities grouped by severity

Name	Entity Type	Default Severity	Title (Count)
10.11.1.1	Computer	Low	1
		Medium	1
10.11.1.200	Computer	Medium	2
10.11.1.201	Computer	Medium	2
10.11.1.204	Computer	Medium	1
CONFIGMGRR2	Computer	Low	1
		Medium	1
CONTENT	Computer	Low	1
DEV163	Computer	Low	1
IDC	Computer	Low	1
IDCWS001	Computer	Low	1
IDCWS005	Network Device	Low	1
IDCWS010	Computer	Low	1
IDCWS017	Computer	Low	1
IDCWS018	Computer	Low	1

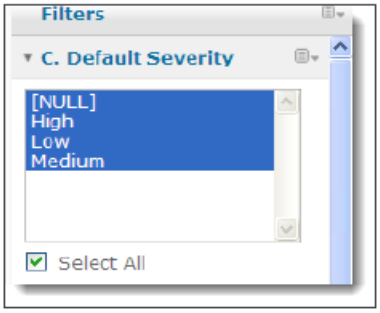
Adding A Filter In The Crosstab Report

You can filter the values to meet the report objective or to make the data available that is only relevant to you. For filtering the data, you must create a filter using a field.

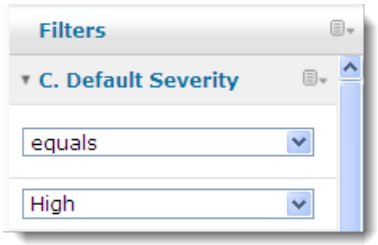
The rest of this section helps you how to filter the severity in the 'ListofAffectedEntities' crosstab view.

To add a filter in the report:

1. In the fields pane, right-click the Default Severity field, and then choose **Create Filter** in the context menu. The filter with all the values selected is created at the right side of the crosstab report in the Ad-Hoc editor.



2. For example, as an Application Security Specialist, you may want to know only those vulnerabilities that has 'High' severity. In this case, you must filter the severity values: 'NULL,' 'Medium,' and 'Low,' and select 'High' severity.
    - In the **Default Severity** filter scroll box, select the 'High' value, or mouse hover the icon next to stage filter, choose **Show Operator**, and select **equals** and **High** in the drop-down boxes.

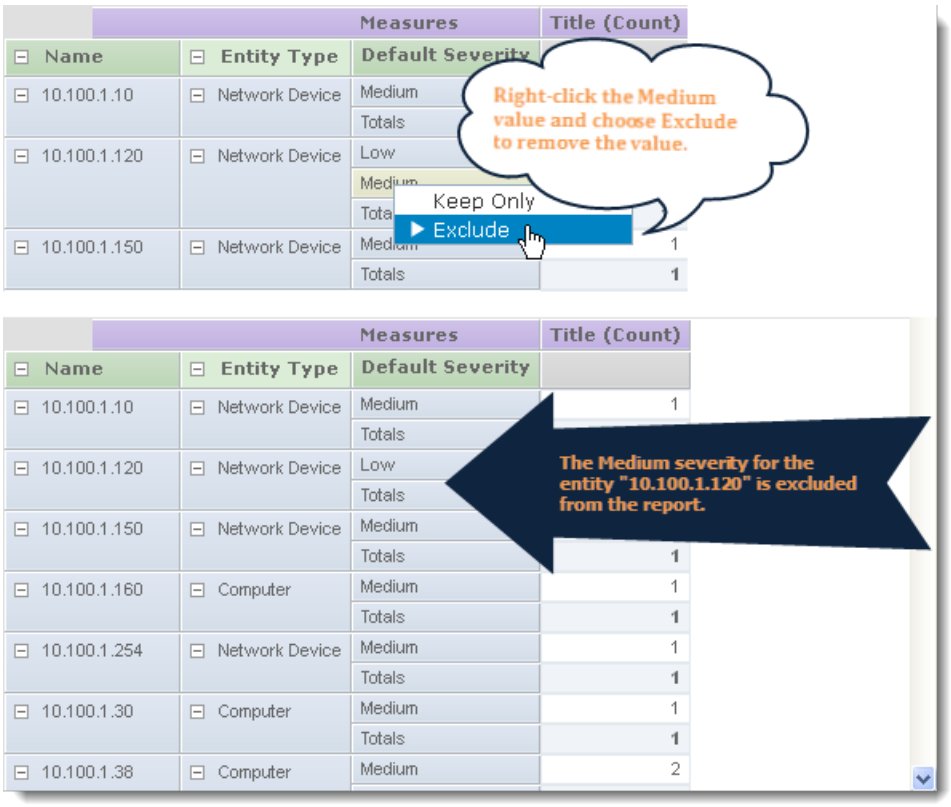


3. After applying the filter, the crosstab report appears as:

List of entities affected by number of vulnerabilities grouped by severity

Name	Entity Type	Default Severity	Title (Count)
PROLIANT	Computer	High	1
Surya	Computer	High	1
qa103	Computer	High	1
qa105	Computer	High	4

4. Optional. You can even filter to include or exclude certain values in the cross tab report. For example, if an entity has two vulnerabilities with low and medium severities, you can choose to retain the entity showing a vulnerability with only low severity. To apply this type of filter, right-click the 'Medium' severity value in the entity row, and choose **Exclude** in the context menu. After applying the filter, that particular entity will show the number of vulnerabilities with low severity only.


Measures
Title (Count)
Name
Entity Type
Default Severity
10.100.1.10
Network Device
Medium
Totals
10.100.1.120
Network Device
Low
Totals
10.100.1.150
Network Device
Totals
Right-click the Medium value and choose Exclude to remove the value.
Keep Only
Exclude
Measures
Title (Count)
Name
Entity Type
Default Severity
10.100.1.10
Network Device
Medium
Totals
10.100.1.120
Network Device
Low
Totals
10.100.1.150
Network Device
Medium
Totals
10.100.1.160
Computer
Medium
Totals
10.100.1.254
Network Device
Medium
Totals
10.100.1.30
Computer
Medium
Totals
10.100.1.38
Computer
Medium
The Medium severity for the entity "10.100.1.120" is excluded from the report.

Viewing And Running A Report In The Ad Hoc Editor

When you finish creating a report or if you add or remove any details while formatting a report, you may want to know how a report output appears using a particular output format.

To view and run a report in the editor:

- At the top of **Layout** band, click  to view a report in the display mode. The report will be displayed in the editor, disabling all the options

  to view a report in the display mode. The report will be displayed in the editor, disabling all the options. Click the  icon again to continue working in the editor.

- At the top of **Layout** band, Click  . The JasperReports Server opens a tabbed browser to execute the report. Depending on the size of the data, allow sufficient time for the JasperReports Server to display the report.
- After a report is displayed, mouse hover the **Export** option, and choose an appropriate format to view how the a report appears in that format.

The filters applied to a user role in RiskVision are rendered when running a report in JasperReports Server. On the other hand, the filters are not rendered in case of SQL-based reports that are imported into JasperReports Server from iReport Designer Professional application.

Scheduling a Report in JasperReports Server

The report scheduler in JasperReports Server allows you to schedule predefined reports as well as the custom built reports. A custom report can be scheduled, only if you are the owner of that report or any user for whom you have assigned the permission to schedule a report.

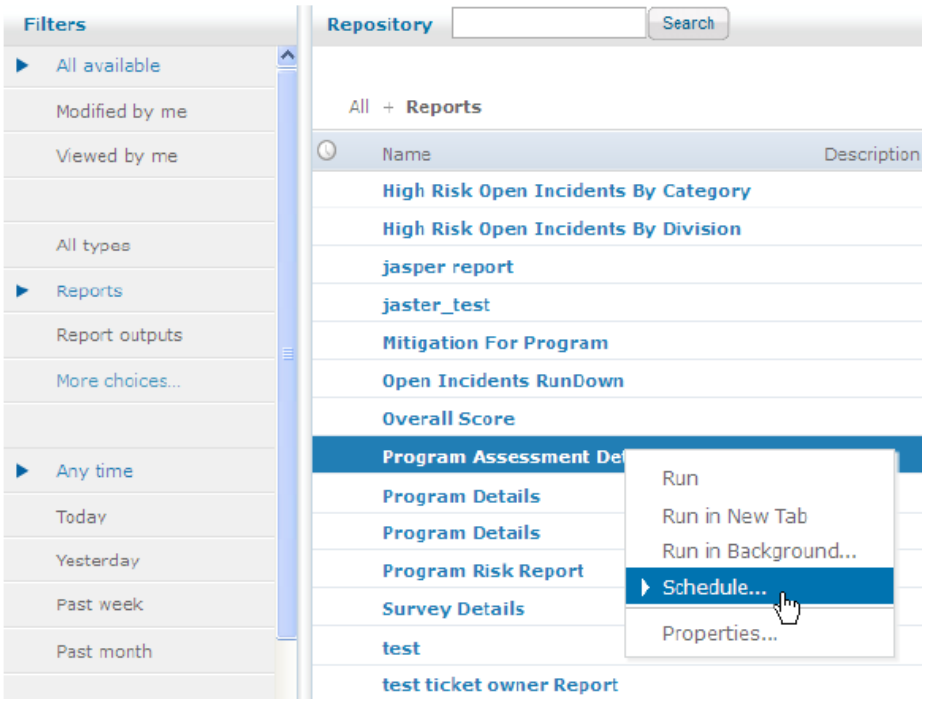
Scheduling a Report

Scenario: As a program owner at Guard First, you are given a task to schedule the Program Assessment Details daily to email the 'GF_Audit_Risk' report to the compliance team in your organization.

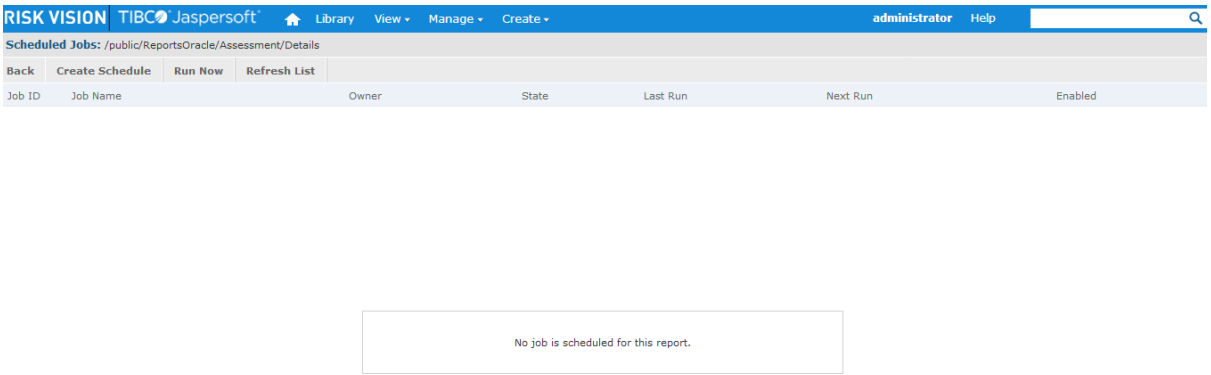
The rest of this section will help you understand how to schedule the Program Assessment Details report, which will provide the assessment details of the 'GF_Risk_Audit' program.

To schedule a report:

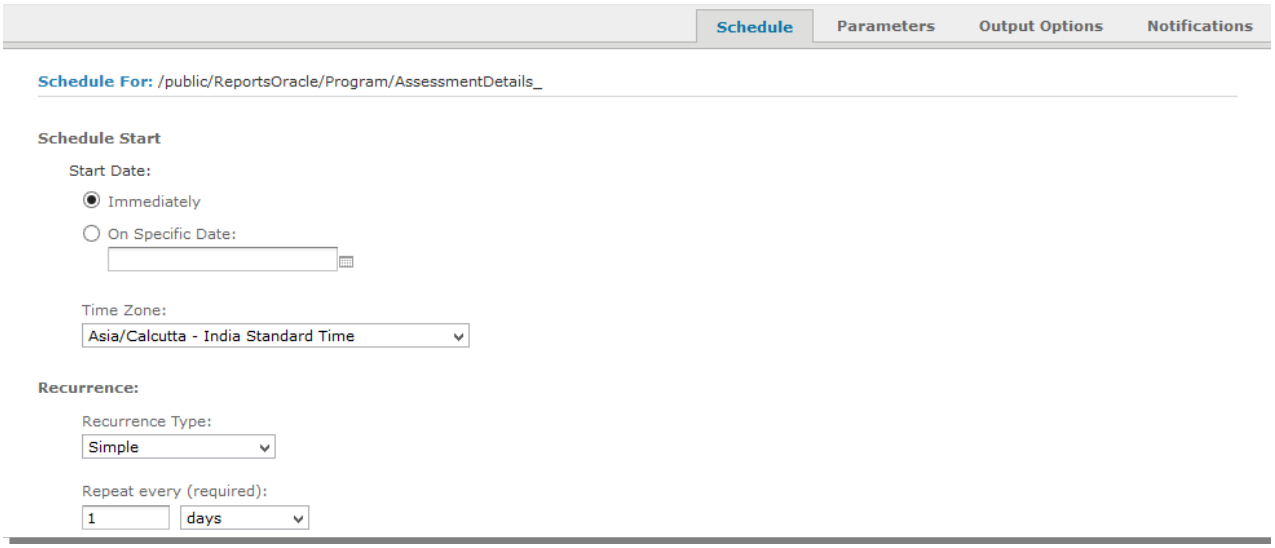
1. Go to **Analytics > Analytics and Reporting** to launch the JasperReports Server.
2. To search a report that you want to schedule, do one of the following:
    1. Go to View > Repository, expand the Reports folder that is present in the Public folder, and select the Program folder to display the list of reports.
    2. Go to View > Search Results, enter text in the Repository text box, and click Search to return the search results. You can also use the predefined filters to narrow the search criteria in finding the desired report.



3. After you find the Program Assessment Details report, right-click in the report row, select**Schedule...** in the context menu to display the **Scheduled Jobs** page, and click **Create Schedule**.



4. The **New Schedule** page appears, displaying the **Schedule** tab.

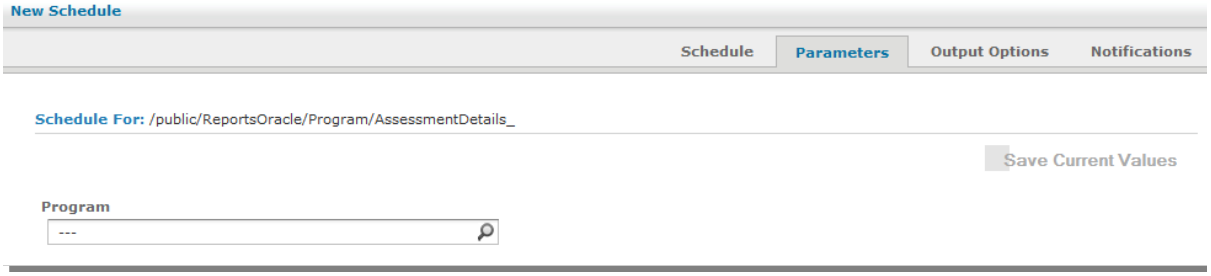


Specify the following fields:

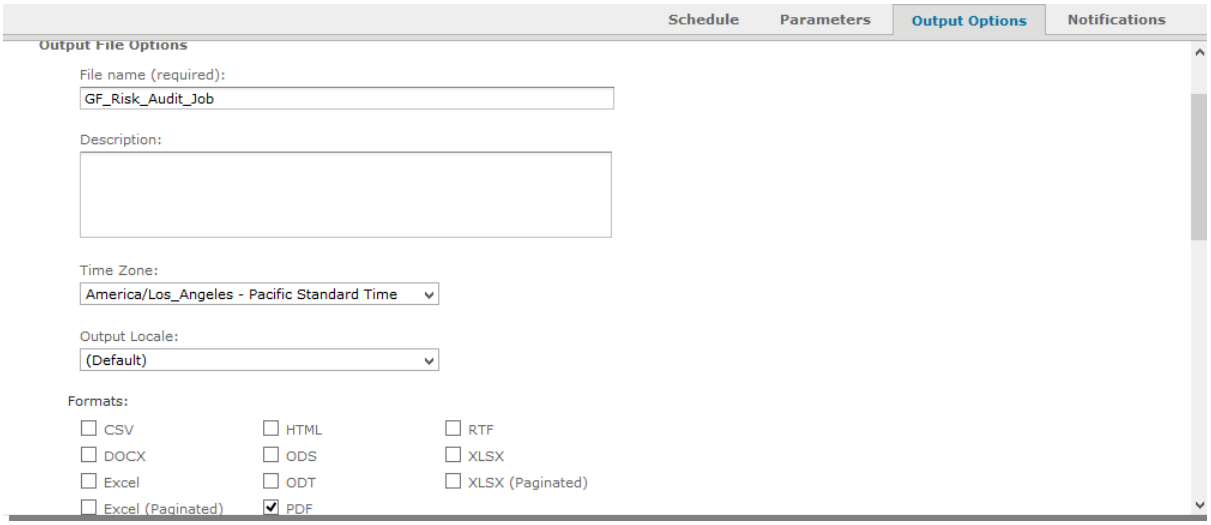
- **Schedule Start**
    - Choose the type of start job. If you choose **Immediately**, the report runs after you the submit the job. To start the job at a later date, choose **On**, and click the calendar icon to select a date. Retain the default selection.

      Specify in which time zone the job must be started. By default, the reports are scheduled in the Pacific Standard Time. Retain the default selection.
- **Recurrence**
    - Choose **None**, **Simple** or **Calendar**. If you choose **None**, the job is run only once based on the start job settings. If you choose **Simple**, then you must specify **Repeat every**, and choose **Indefinitely**, **Times**, or **Until**. Because your objective is to run the job daily for 30 days, you must enter 1 in the box next to Repeat every, and choose days from the drop-down list. Choose **Until** and click the calendar icon to select a date that is 30 days from the current date.

5. Click the **Parameters** tab. Select the values for input control that you want the job to use when producing the report results. Select the 'GF_Risk_Audit' program in the **Program** look-up field.



6. Click the **Output Options** tab.



Specify the following fields:

- Base Output File Name. Enter 'GF_Risk_Audit_Job' for displaying the output of the job.
- Output Description. Specify the description for the job output.
- Time Zone. Select the desired time zone.
- Output Locale. Select the locale settings for the report. Retain this setting to 'Default.'
- Formats. Choose one or more output formats. By default, the scheduler uses the PDF format. When you choose more than one format, each format is stored as a separate file in the repository and attached as a separate file to the email notification.
- File. Handling. By default, the Overwrite Filesoption is selected to overwrite the old report file name with the new ones. Check the box next to **Sequential File**names and enter the timestamp pattern. You may use this option in case of recurring jobs to know the latest report output file. The default timestamp pattern is 'yyyyMMddHHmm.'
- **Output Destination. By default, the Output To Repository**option is selected to save the output file to the repository. Click **Browse** if you have to change the output location in the repository. Check the box next to the **Output to Host File System**if you have to publish the output to the file hosting services. Check the box next to **Output To FTP Server**if you have upload the files to the FTP server.
- Notifications. Enter email addresses to send notifications when scheduler runs and job is executed. Enter messages upon successful and/or failure notifications. Multiple email addresses must be separated by commas in the To box. Include reports as repository links, attachments, ZIP format, or HTML.
- Click **Save**.
- The **Save As** dialog appears. Enter Schedule Job Name (required)and Scheduled Job Description.
- Click **Save**. The report is scheduled.

Modifying A Scheduled Job

JasperReports Server allows you to modify or delete a job if you have sufficient permissions for the scheduled report. After you submit the schedule job, the job appears on the **Scheduled Jobs** page of the report that you have scheduled.

To modify a scheduled job:

1. Locate the scheduled report in the repository, right-click in the row, and choose Schedule in the context menu. A scheduled report will have the icon at the beginning of the report row.
2. The **Scheduled Jobs** page appears for the chosen report. To modify the report, click the **Edit** link in the job row, and make changes on the **Schedule**, **Parameters**, **Output Options**, and **Notifications** tabs.

To stop the recurring job, delete it.

To delete a scheduled job:

1. Locate the scheduled report in the repository, right-click in the row, and choose **Schedule** in the context menu. A scheduled report will have the  icon at the beginning of the report row.
2. The **Scheduled Jobs** page appears for the chosen report. To stop the job, click the **Delete** link in the job row. The job is deleted without any confirmation.

Converting RiskVision Charts To JasperReports Server

Before you can convert your RiskVision chart, ensure that you are using at least a 6.5 version of RiskVision and have installed the RiskVision Report Server. Converting RiskVision charts to JasperReports Server is a two step procedure:

1. Exporting RiskVision charts
2. Importing RiskVision Charts into JasperReports Server

In RiskVision application, you can convert charts saved in the "My Charts" and "Shared Charts" folder. When you save a chart to the JRXML file definition, you can create a report in any folder of a repository for which you have the appropriate permission. The Jasper Export action does not convert all the chart features. Converted complex features and chart types are modified or removed in JasperReports Server. Generating a flawless chart in JasperReports Server depends on your ability to understand the complex chart features in RiskVision and the options available in Add JasperReport wizard pages. This assists you to manually set up the features in Add JasperReport wizard to resemble the actual chart.

Exporting Charts to the JasperReports Server

Exporting a RiskVision chart to JasperReports Server involves saving the JRXML file definition. You can import the JRXML saved file into JasperReports Server to implement more interactive charts.

To export a chart to JasperReports Server format:

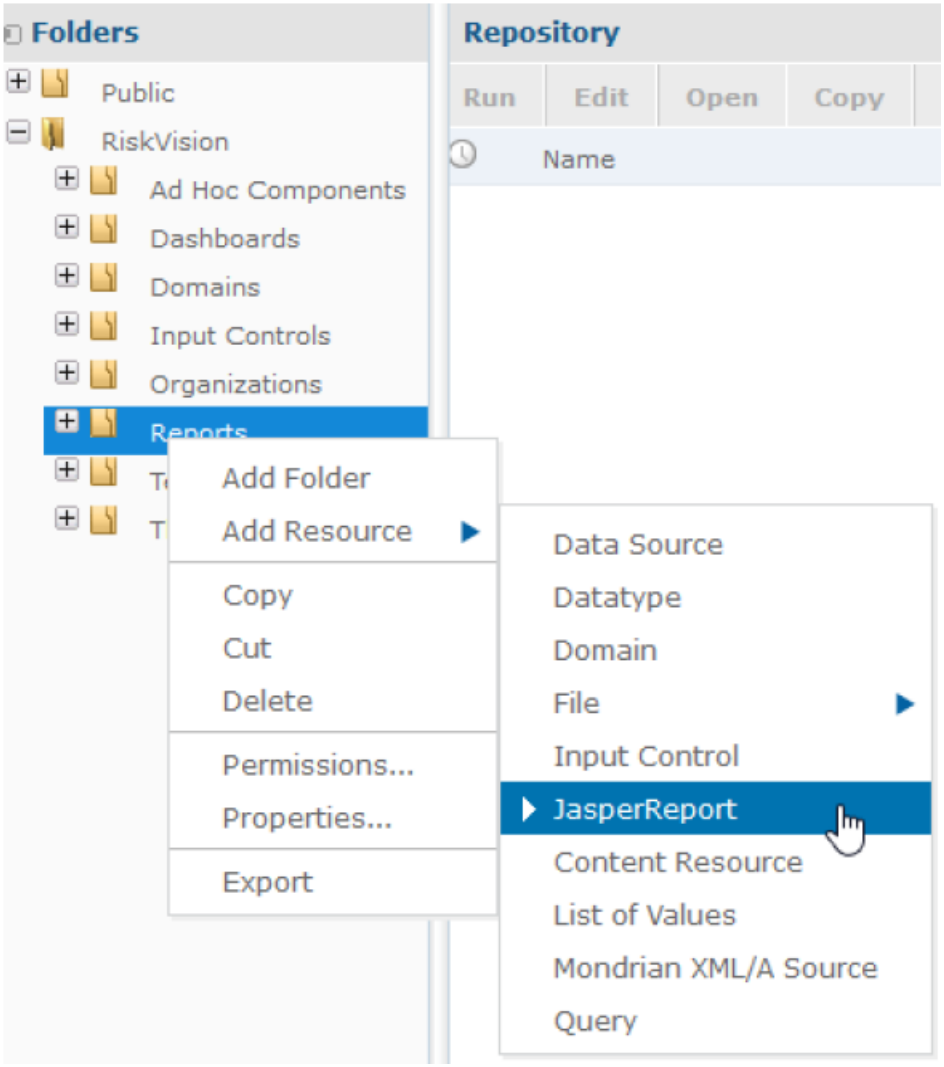
1. In the RiskVision application, go to **Analytics** > **Charts**.
2. In the charts tree, locate the group which contains the chart that you want to export and then click the group to display the available charts on the right pane.
3. You can export charts with or without a parameter.
    1. To export a chart without a parameter, select a chart and choose **Export to Jasper** from the **More Actions** drop-down list.
    2. To export a chart along with a parameter, select a chart and then click **Details**. In the **Charts** tab, click **Jasper Export**.
4. A confirmation dialog appears asking you whether to save or open the JRXML file. Choose **Save** and then click **OK** to save the chart.

Importing RiskVision Charts into the JasperReports Server

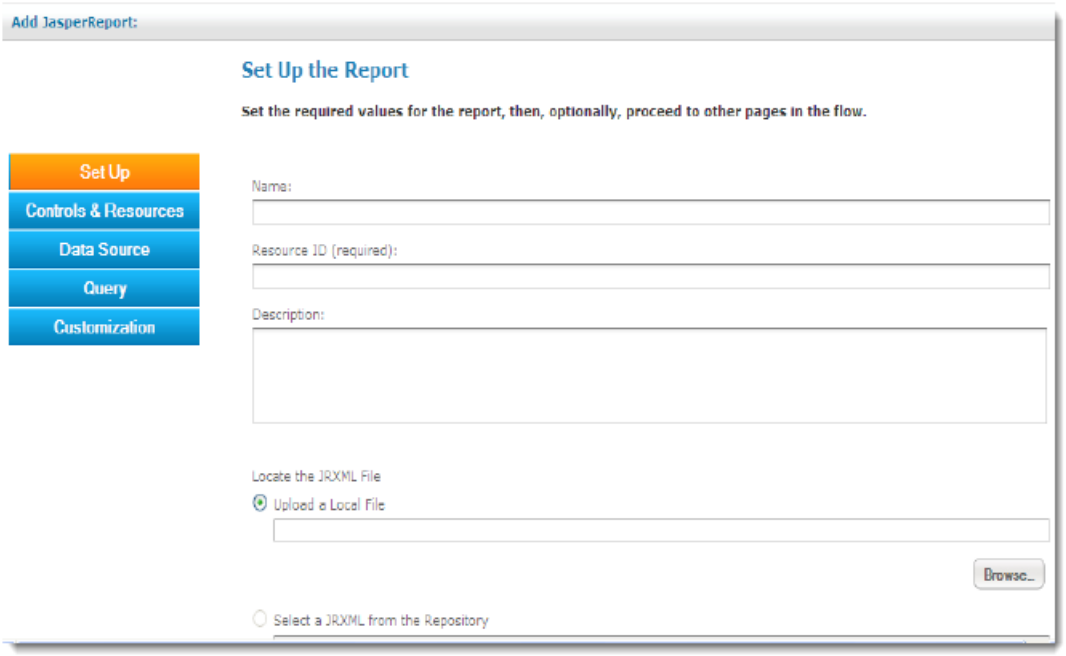
You can import a RiskVision chart saved in JRXML format. RiskVision charts can be enhanced using the additional features of JasperReports, such as fonts, a query that restricts the report data from displaying additional details and so on.

To import a RiskVision chart:

1. Go to **Analytics > Analytics and Reporting**. The JasperReports Server menu appears.
2. On the **View** menu, click **Repository**.
3. Expand the folder to locate the desired group where you want to import the chart.
4. Right-click the folder and point cursor on **Add Resource** option to select **JasperReport.** The **Add Resource** page appears on the context menu only if you have write permission to the folder.



5. In the **Setup** page that appears, enter Name, Resource ID and optional Description for the report.



6. Locate the JRXML file by selecting **Upload a Local File** and then click **Browse** to select the appropriate file.
7. Click **Controls and Resources**. The JasperReports Server uploads the JRXML file to the repository and provide suggestions on missing resources like images, input parameters, and more.

    1. If the exported RiskVision chart contains input parameters, perform the following steps:

        - Click **Add Input Control**.
        - Choose **Select an Input Control from repository** and click **Browse**. In the **Select Resource From Repository** dialog, expand > **Public** > **Input Controls** > **Multi Select** and select the control.
        - In the Select an Input Control from repository, click **Select**
        - In the **Add Input Control** page, click **Next** to continue.
        - In the **Controls and Resources** page, check the box next to the **Always prompt**option, which is available next to the **Display Mode**drop-down list.

    2. If the exported RiskVision chart contains columns to drill-down, perform the following steps:

        - Click **Add Input Control**.
        - Choose **Define an Input Control in the next step** and click **Next**.
        - In the **Create Input Control** page, retain the default selection "Single Value" in the **Type**drop-down box.
        - Enter a label in the **Prompt Text (required)**field and **Parameter Name (required)**field. The value to be entered in the **Parameter Name (required)**field is the name of the parameter found in the .jrxml file (exported RiskVision chart). Click **Next** to continue.
        - In the **Locate Datatypes** page, Choose **Define a Datatype in the next step** and click **Next** to continue.
        - In the **Set the Datatype Kind and Properties** page, perform the following steps:

            1. Retain the default selection "Text" in the *Type* drop-down box.
            2. Specify a name for the resource in the **Name (required)**field and an ID for the resource in the **Resource ID (required)**field. The value to be entered in the **s**field is the name of the parameter found in the JRXML file (exported RiskVision chart).
            3. Click **Save**.

8. Click **Data Sources**, choose the **Select data source from repository** option, and click **Browse**. In the **Select Data Source from Repository** dialog, expand the group, select **RiskVision** under the **Data Sources** subgroup, and click **Select**.
9. For information about how to define a query and customizing a report, see Adding Report Units from JRXML Files in the*JasperReports-Server-User-Guide*.

    - Click **Submit** to save the report. You can submit the report on any page of the **Add JasperReport** page.

Conversion Settings for RiskVision Chart Options

The following list describes the RiskVision chart options and the actions you will need to perform while importing the charts into the JasperReports Server for successful conversion.

- When **Allow multiple objects**option is selected on the **Filters** tab of **Create a Chart** wizard
- *Solution*: In the **Add JasperReport** wizard, click the **Controls & Resources** page, click **Add Input Control**, choose **Select an Input Control from repository**, click **Browse** and then select input controls from **Multi Select** group. In the **Add JasperReport** wizard, click **Controls & Resources** and define the Multi select input control.
- When **Allow multiple objects**option is cleared on the **Filters** tab of **Create a Chart** wizard
- *Solution*: In **Add JasperReport** wizard, click **Controls & Resources**, click **Add Input Control**, choose **Select an Input Control from repository**, click **Browse** and then select input controls from **Single Select group**.
- When parameters defined on the **Advanced settings** tab of **Create a Chart** wizard
- *Solution*: The input control must be created using the parameter name available in the JRXML file.
- Radar chart types are not supported in Jaspersoft. Hence, these charts are modified and displayed as tables in JasperReports Server.

Converting Domain Naming Terminology into a User Friendly Name

A custom created domain in JasperReports Server uses database views and tables from the RiskVision database. Further, if you customize the display name of an object, or if a custom attribute is added to any RiskVision object, such attributes will fail to render the display names from the user interface of that object when you create a domain. As a result, all the attributes in a domain have names that are not easy to understand while creating a report. In order to help you pick the correct attributes while creating an Ad-Hoc report, provides an utility that can import a resource bundle of a particular domain to fully convert the customized attribute naming terminology into a user-friendly name. When you convert a particular JasperReports domain, all the attribute names matches with the attributes present in RiskVision.

A domain naming terminology can be converted into a user-friendly name using a three-step procedure:

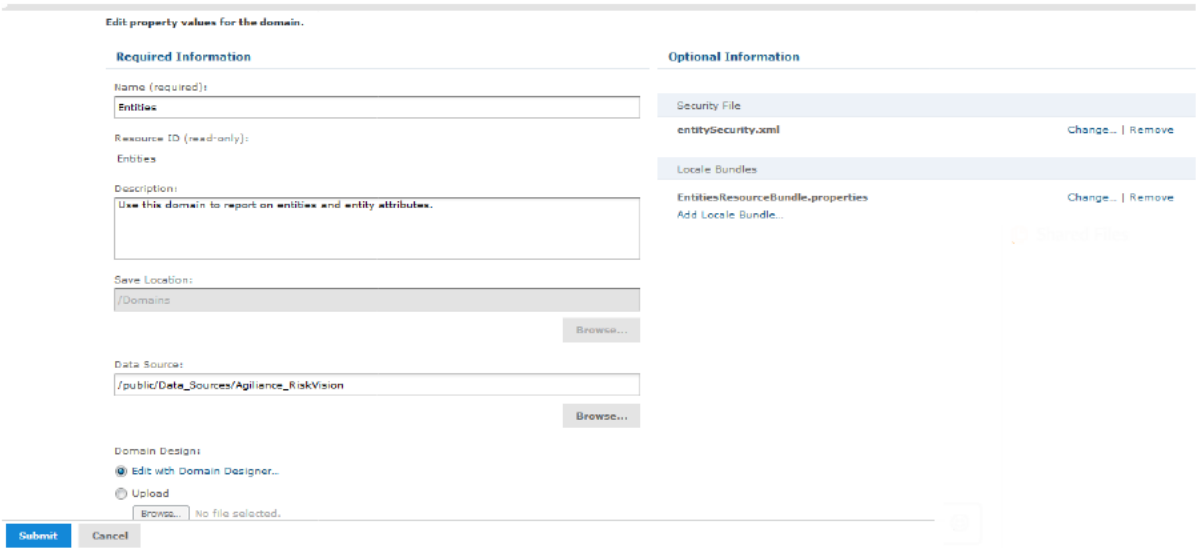
1. Exporting a Domain Resource Bundle
2. Importing a Domain Resource Bundle into RiskVision
3. Adding a New Resource Bundle

Before you start the conversion process, make sure that your RiskVision role has the **Configure UI** permission, and also you have the administrator role for the JasperReports Server.

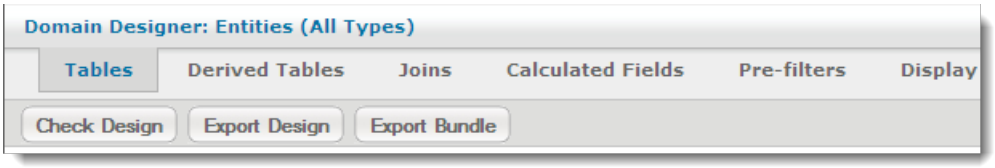
Exporting A Domain Resource Bundle

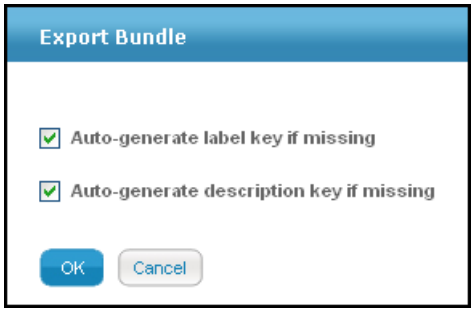
Perform the following steps to export a domain resource bundle.

1. In the JasperReports Server application, go to View > Repository, search and select a domain, and then right-click on the domain and choose **Edit**.



2. On the **Edit Domain** page, click the **Edit with Domain designer** link. By default, the **Edit with Domain designer** option is selected.
3. On the **Domain Designer** page, click **Export Bundle** to bring on its pop-up. Check the box next to the **Auto-generate label key if missing** and **Auto-generate description key if missing** options, and click **OK**.



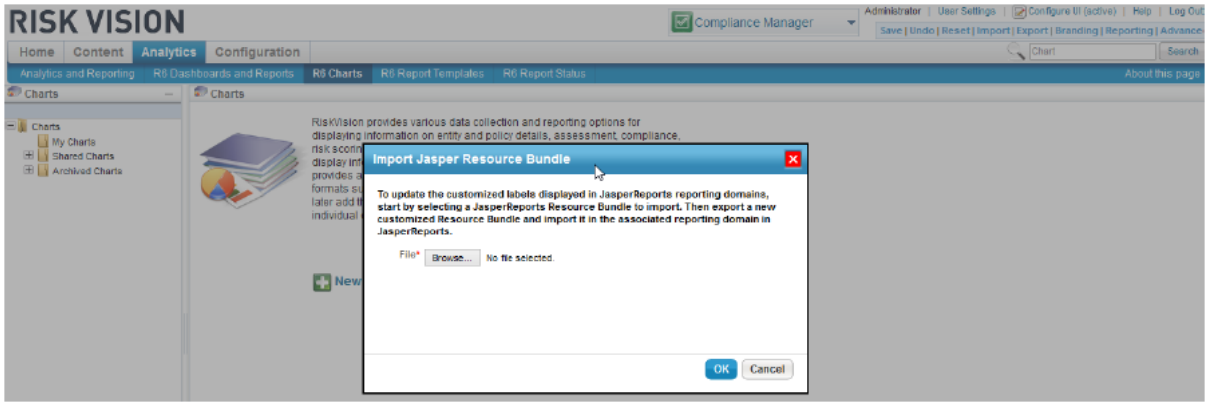


4. A prompt box to save or open the domain bundle properties file appears. Choose **Save File**, select the location to save the file, and click **OK**.
5. Click **OK** on the **Domain Designer** page and click **Submit** on the **Edit Domain** page to save the domain.

Importing a Domain Resource Bundle Into RiskVision

Perform the following steps to import the domain resource bundle into RiskVision.

1. After you log in to the RiskVision application, click Reporting at the top right side of the page.



2. The **Import Jasper Resource Bundle** dialog appears. Click **Browse**, select the domain bundle properties file that you have saved in step 5 of *"Exporting a Domain Resource Bundle"* section, and click **OK**.

3. A dialog appears asking you whether to save or open the resource bundle properties file. Choose **Save File**, select the location to save the file, and click **OK**.

Adding a New Resource Bundle

To complete the last step in the conversion process, perform the following steps to add a new resource bundle properties file.

1. Go back to the same domain that you have selected in the *"Exporting a Domain Resource Bundle"* section, select and right-click on the domain, and choose **Edit**.
2. On the **Edit Domain** page, click **Add Locale Bundle** to bring on the pop-up, click **Browse** to select and upload the resource bundle properties file, and click **Select**.
3. After the bundle is set, click **Submit** on the **Edit Domain** page.

Now that you have completed the conversion process, it will be now easy to pick the easy-to-understand attributes from a domain while creating a report.

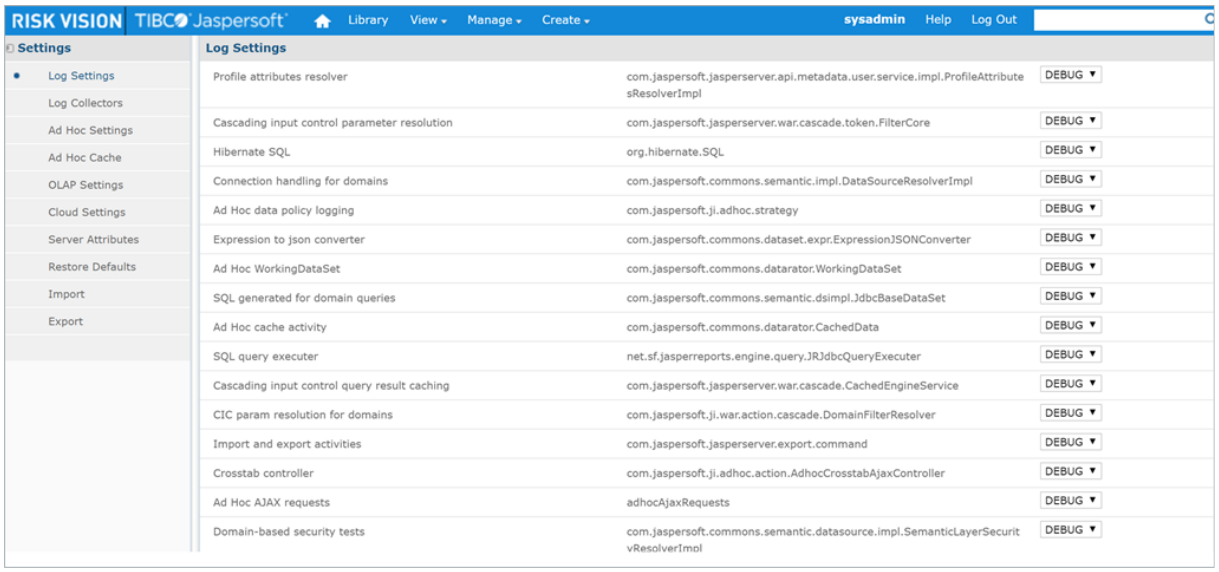
System Logs

System logs capture any errors in JasperReports Server's code, but the logging levels can be configured to capture more information for debugging purposes. Log files are generated in JasperReports Server using the Apache log4j package. To view these files, users must have access to the file system where JasperReports Server is installed.

The default log file is **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF\log/jasperserver.log** and the default log configuration file is **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF\log4j.properties**. Log levels can be set through these files, or through the UI by following the below steps.

To set the current logging levels through the UI:

1. Log in to JasperReports Server as an administrator.
2. Navigate to **Manage** > **Server Settings**.
3. Click **Log Settings** on the panel to the left.



The Log Settings page.

4. Use the drop-down lists next to each class to change its log level.
5. **Optional:** If a report is taking too long to execute, change the log level of the below classes to**DEBUG** to capture the SQL queries to run for reports as well as their timing:
    - **com.jaspersoft.commons.util.JSControlledJdbcQueryExecuter**: Logs the amount of time it takes one of JRJdbcQueryExecuter's queries to return data to a report.
    - **com.jaspersoft.commons.semantic.dsimpl.JdbcBaseDataSet**: Logs SQL queries generated from queries that use a Domain.
    - **net.sf.jasperreports.engine.query.JRJdbcQueryExecuter**: Logs text and parameter values for queries run by this logger.

> ⚠ Changing the log level of the **org.hibernate.SQL** class to **DEBUG** will generate a large amount of logging that could negatively impact JasperReports Server's performance.

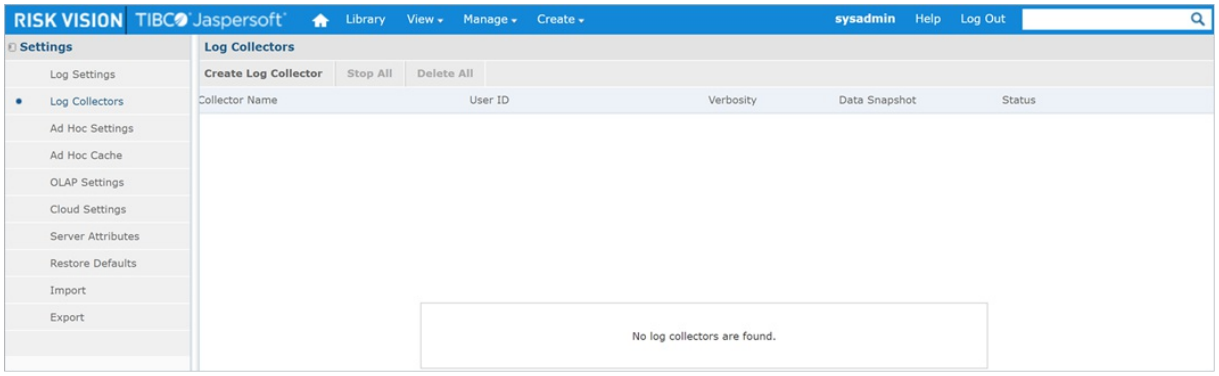
Further information on system logs and how to use them can be found on the Jaspersoft Community page.

Log Collectors

While system logs are useful for finding problems with JasperReports Server, the size of the log files can make it difficult to find the log messages associated with a specific problem. Additionally, viewing these files requires access to the server's file system. Log collectors simplify all of this by recording logs from a specific user or report for a specified duration. These logs can be made available through JasperReports Server's user interface by administrators.

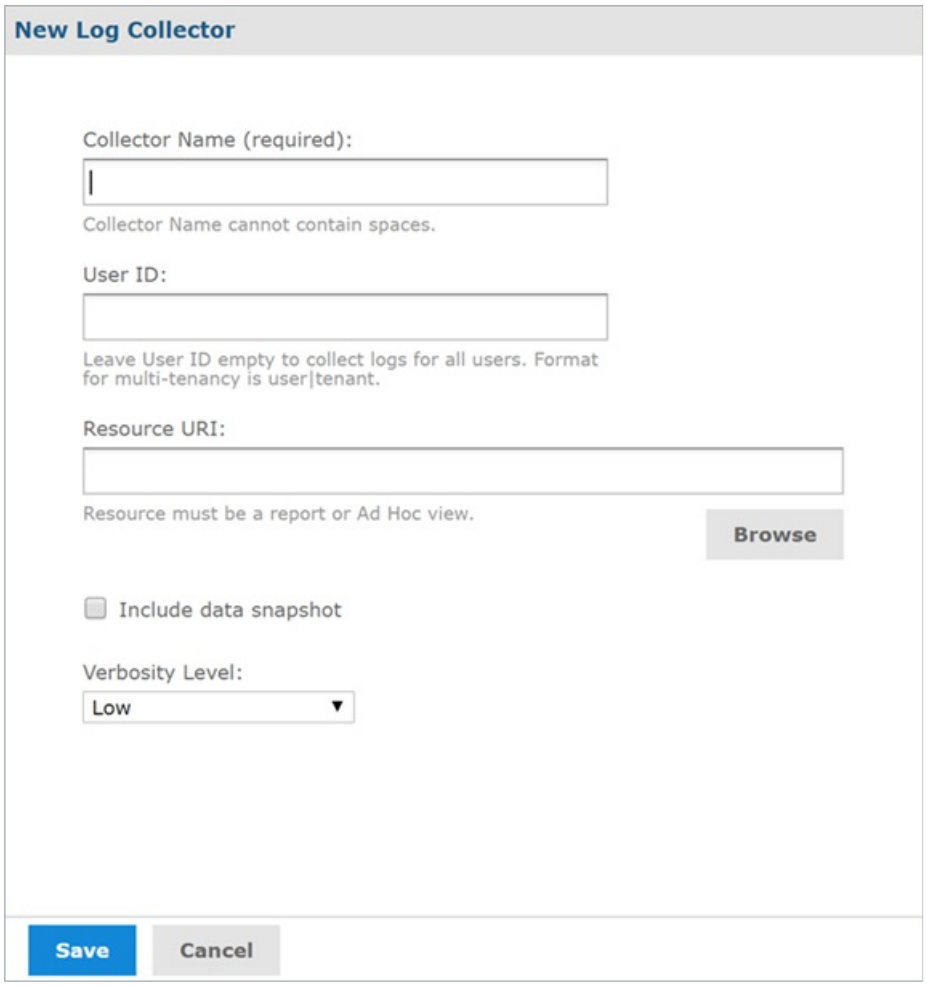
To create, start, stop, download, or delete a log collector:

1. Log in to JasperReports Server as an administrator.
2. Navigate to **Manage** > **Server Settings**.
3. Click **Log Collectors** on the panel to the left.



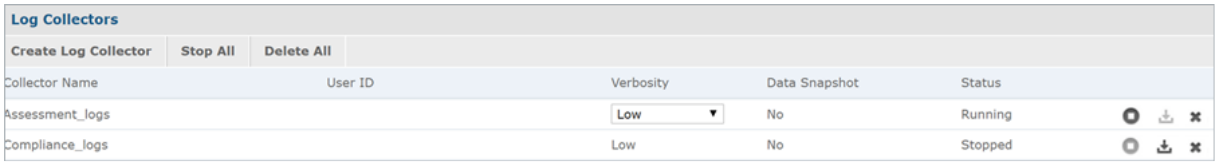
The Log Collectors page.

4. Click the **Create Log Collector** button to open the New Log Collector page.



The New Log Collector page.

5. Enter a name for the collector in the **Collector Name** field.
6. Type a user ID in the **User ID** field to display logs related to only that user. Leave the field empty to include all logs.
7. For a new log collector, the resource URI must be an existing report or ad hoc view from the repository. Click**Browse** under the **Resource URI** field to select one.
8. **Optional:** If you have data snapshots enabled, check the box next to **Include data snapshot** to include data from the snapshot in the log file.
9. Use the **Verbosity Level** dropdown to choose a verbosity level of low, medium or high. Low is selected by default.
10. Click **Save** to create the new log collector and add it to the Log Collectors page. A log collector starts as soon as it is created.



The Log Collectors page with log collectors added to it.

11. To stop a log collector, click the  icon to the right of the collector. Alternatively, click **Stop All** to stop all log collectors.

> ⚠ Once a log collector has been stopped, it cannot be restarted. The collector must be deleted and created again.

12. To download a log collector's log file, click the  icon to the right of the collector. Log collectors are saved as .zip files containing .log files.

13. To delete a log collector, click the  icon to the right of the collector. Alternatively, click **Delete All** to delete all log collectors.

Auditing & Monitoring Events

While system logs capture messages from the internal code of JasperReport Server, the auditing and monitoring systems capture user events that give a larger picture of how users interact with JasperReport Server and what resources they use.

Auditing stores key events that are of interest to administrators. Events that have been audited can be saved and automatically moved to an archive after a specified duration.

Monitoring is based on audited events and generates reports that contain such metrics as which reports use the most resources. This helps with optimizing data sources, domains, and reports.

The events captured by auditing and monitoring include:

- Running a report or subreport;
- Creating, deleting, or updating a report schedule; and
- Running a scheduled report

The full specification of events can be viewed in the configuration file located at **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF\applicationContext-audit.xml**. By default, the auditing and monitoring subsystems are disabled.

To enable auditing and monitoring:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **js.config.properties** file.
3. Ensure the following properties are enabled in the following order:
    - `feature.audit_monitoring.enabled`
    - `audit.records.enabled`
    - `monitoring.records.enabled`

To set the audit data's interval level:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext-audit.xml** file.
3. Under `auditService`, set the following properties as desired:
    - `maxAuditEventAge`: how many days before data is deleted (set to 0 by default, meaning data is never deleted).
    - `maxAuditEventAgeToArchive`: how many days before data is moved to the archive (set to 30 by default).

To view the audit data:

1. Locate the audit data in the **/Public/Audit** folder of the repository.
2. Slow running reports can be identified by consulting the following:
    - **Performance Report**
    - **Performance Crosstab Report**: Shows the query executing time along with report execution and rendering time.

To view the monitoring data:

1. Locate the monitoring data in the **/Public/Monitoring** folder of the repository.
2. Diagnose the performance and resource utilization of reports using the following:
    - **Report Monitoring Resources Report**: Provides a list of all reports and shows their average and high-low execution times.

- **Report Monitoring Details Report:** A crosstab that shows report execution times on one axis and dimensions such as time hierarchy, user and organization, and event type on the other.

Real-Time Diagnostics

While the auditing and monitoring systems provide a historical record of events that occur within JasperReports Server, diagnostics provide administrators with the overall health of JasperReports Server and its Java Virtual Machine. For example, diagnostics can provide information such as memory use, login and logout times, concurrently running reports, and number of scheduled reports.

Diagnostic data is available to administrators in the **Public** > **Diagnostic** folder of the JasperReports Server UI. The configuration file can also be accessed and edited using the steps below. The file consists of object-encapsulating classes known as beans, and excluding these beans from the code can help narrow down the diagnostic results.

To limit the diagnostic results:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext-diagnostic.xml** file.
3. To exclude an attribute:
    a. Locate the managed bean where the desired attribute is defined.
    b. Uncomment the attribute from the `excludedDiagnosticAttributes` property.
4. To exclude an entire bean:
    a. Locate the desired bean.
    b. Comment the bean or remove it from the list of beans in the `diagnosticExportingMBeansMap` .
5. To disable real-time diagnostics entirely, rename or remove the following files:
    - **applicationContext-diagnostic.xml**
    - **applicationContext-diagnostic-pro.xml**

Running out of Database Connections

JasperReports Server manages a pool of connections for each Java Database Connectivity (JDBC) data source. By default, twenty connections are provided. If many reports are being run concurrently against a single data source, the connection limit may be reached which can cause a slowdown in service.

The pool of connections has a limited size to prevent having too much memory being permanently allocated to connections. However, users who need more concurrent connections on a regular basis can increase the limit.

To increase the amount of connections:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext.xml** file.
3. Change the constructor argument number of the `dataSourceObjectPoolFactory` bean to the desired amount. The optimal amount varies depending on the setup and number of users in the system. Experimentation is encouraged.

Concurrent Users Vs. Concurrent Report Executions

The load on JasperReports Server can be increased by user actions such as executing reports, exploring data through ad hoc views, and executing automated reports through APIs or scheduling.

As a general rule, the ratio of named users to active users to concurrent actions can be estimated using the 100:10:1 rule. By using this rule, users can more effectively schedule automated reports so that too much strain is not placed on the system. Scheduled reports can be executed with the **Snapshot** option enabled to ensure that these reports do not impose any resource requirements at the time of viewing. The **Snapshot** option stores a copy of data when the report first runs so that users can get data from that copy rather than taking up memory querying the data source. This especially reduces the load for large reports or reports that are frequently viewed.

To enable the Snapshot option:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext-data-snapshots.xml** file.
3. Locate the `dataSnapshotService` bean.
4. Set the `snapshotPersistenceEnabled` property to true.

Measuring & Tuning Ad Hoc Performance

If JasperReports Server is running slower than expected, then it is possible that a bottleneck exists in one of the server's ad hoc reports. In this case, JasperReports Server offers tools to measure and tune ad hoc performance.

To measure ad hoc performance:

1. Log in to JasperReports Server as an administrator.
2. Navigate to **Manage** > **Ad Hoc Cache**. There will be two columns that measure the performance of ad hoc reports.
    - **Query (msec)**: The time between when the query was sent to the database and when the first row was received. If this time seems abnormally slow, better indexing may be required.
    - **Fetch (msec)**: The time between when the first and last rows were received. If this time seems abnormally slow, then there may be a network bottleneck. This is true for any server architecture.
3. **Optional**: If the **Fetch** column indicates a network bottleneck:
    a. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF\classes**.
    b. Open the **jasperreports.properties** file.
    c. Adjust the number of the `net.sf.jasperreports.jdbc.fetch.size=n` property as desired. Note that **n** represents the number of rows to fetch at one time.

To tune ad hoc performance:

1. Log in to JasperReports Server as an administrator.
2. Navigate to **Manage** > **Ad Hoc Settings**.
3. Tune one or both of the following properties under **Query Limits** as needed:
    - **Ad Hoc Dataset Row Limit** The maximum number of rows that an ad hoc report can return. Once the limit is reached, JRS truncates the report. Reducing the number of reported rows may improve performance, but reports may not accurately reflect the data set as a result.
    - **Ad Hoc Filter List of Values Row Limit** The maximum number of items displayed in the Condition Editor when a user defines filters for a domain-based ad hoc report. Setting this to a lower value can improve performance.

Large Reports

In order to avoid running out of memory, JasperReports Server uses the JRFileVirtualizer to handle reports with a large page count. This virtualizer creates a separate file for every page of the report after page 300. While this does reduce strain on the Java memory heap, it can also potentially slow down JasperReports Server. If it appears that larger reports are causing memory bottleneck issues, it is possible to adjust the virtualizer's settings.

To edit the maximum report size:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext.xml** file.
3. Locate the `fileVirtualizerFactory` bean.
4. Adjust the `maxSize` attribute as desired.

> ⚠ Making the value for maxSize abnormally high will effectively disable the virtualizer, but may cause memory problems.

Disable Multi-Line Data Processing

By disabling multi-line data processing, report generation for all reports will speed up by 2-4 times. While this will cause no ill effects for reports with single-line tabular data, reports with multi-line data will not display information beyond the first line in each row.

To disable multi-line data processing:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF\classes**.
2. Open the **jasperreports.properties** file.
3. Locate the `net.sf.jasperreports.text.measurer.factory` parameter.
4. Change its value from `net.sf.jasperreports.engine.util.JdkGlyphFixTextMeasurerFactory` to `com.jaspersoft.jasperserver.api.engine.jasperreports.util.SingleLineTextMeasurerFactory`.

Modify the Caching Values

If the data in JasperReports Server is not updating constantly, the caching values may need to be modified. Different settings may cause different effects depending on the scenario so experimentation is encouraged.

To adjust the caching settings:

1. Navigate to **C:\ReportServer\ReportServer\apache-tomcat\webapps\jasperserver-pro\WEB-INF**.
2. Open the **applicationContext-adhoc.xml** file.
3. Locate the `dataSetCache` bean.
4. Adjust either or both of the following parameters as desired:
    - `defaultTimeoutMinutes` : The number of minutes the system will wait before removing a dataset from the cache. Ensures that stale data is periodically refreshed. Set to 60 by default.
    - `DefaultUnusedTimeoutMinutes` : The number of minutes the system will wait before removing a used dataset from the cache. Set to 20 by default.

Reports With Logos Fail to Load

Some users have reported that reports in the JasperReports Server with logos have been failing to load after upgrading from RiskVision version 9.2 to version 9.4 and above. Instead of seeing the report, users get an error message that states **Byte data not found**.

If you see a similar error message while attempting to load a report with a logo, follow the below steps.

To resolve the report loading issue:

1. Launch JasperReports Server in standalone mode.
2. Export the report that is not loading.
3. Use WinRAR to unzip the report.
4. Navigate to the **main_jrxml.data** and rename it to **main_jrxml.jrxml**.
5. Open the **main_jrxml.jrxml** file and perform the following:
    a. Change the text from `//"]]>` to
    b. Save your changes and close the file.
6. In JasperReports Server, click **Edit** on the report that is not loading.
7. In the **Locate the JRXML File** field, browse for the renamed **main_jrxml.jrxml** file.
8. Click **Submit**.
9. Run the report.

If the problem persists after following these steps, contact Resolver support.

About Jaspersoft Studio Professional

Jaspersoft Studio is an Eclipse-based report designer for JasperReports Library and JasperReports Server; it's available as an Eclipse plug-in or as a stand-alone application. Jaspersoft Studio allows you to create sophisticated layouts containing charts, images, subreports, crosstabs, and more. You can access your data through a variety of sources including JDBC, TableModels, JavaBeans, XML, Hibernate, Big Data (such as Hive), CSV, XML/A, as well as custom sources, then publish your reports as PDF, RTF, XML, XLS, CSV, HTML, XHTML, text, DOCX, or OpenOffice.

TIBCO JasperReports(R) Server builds on TIBCO JasperReports(R) Library as a comprehensive family of Business Intelligence (BI) products, providing robust static and interactive reporting, report server, and data analysis capabilities. These capabilities are available as either stand-alone products, or as part of an integrated end-to-end BI suite utilizing common metadata and provide shared services, such as security, a repository, and scheduling. The server exposes comprehensive public interfaces enabling seamless integration with other applications and the capability to easily add custom functionality.

The heart of the TIBCO Jaspersoft(R) BI Suite is the server, which provides the ability to:

- Easily create new reports based on views designed in an intuitive, web-based, drag and drop Ad Hoc Editor.
- Efficiently and securely manage many reports.
- Interact with reports, including sorting, changing formatting, entering parameters, and drilling on data.
- Schedule reports for distribution through email and storage in the repository.
- Arrange reports and web content to create appealing, data-rich Jaspersoft Dashboards that quickly convey business trends.

While the Ad Hoc Editor lets users create simple reports, more complex reports can be created outside of the server. You can either use Jaspersoft(R) Studio or manually write JRXML code to create a report that can be run in the server.

Appendix Topics

The Topics available in Jasper domain are mentioned below:

- Assessments Basic Details
- Data Feeds Basic Details
- Entities Basic Details
- Exceptions Basic details
- Findings Basic Details
- Incidents Basic Details
- Programs Basic Details
- Threats Basic Details
- Tickets Basic Details
- Vulnerability Basic Details(Definition)
- Vulnerability(Instance) Basic Details

Assessment Domain Part 1 of 2

View	Fields	Measures
Assessments	Archived	Compliance Score
	Assessment Owner	Current Risk Score
	Assessment Ownership Type	Inherent Risk Score
	Create Date	Progress
	Current Status	Residual Risk Score
	Due Date	Simple Risk Score
	End Date	
	Is Not Closed	
	Name	
	Version	
Assessment Control Results	Answered By	Choice Score
	Choice Text	Compliance Level
	Comments	Risk Score
	Compliance Overwrite Comment	
	Implementation	
	Description	
	Help Text	
	Control Title	
	Question Text	
	Remediation	
	Survey Status	

View	Fields	Measures
	Survey Workflow Status	
	Time	
Assessment Compliance Score	Control Name	Compliance Score
	Entity Name	Simple Risk Score
	Name	
	Program Name	
Assessment Compliance Score by Dynamic Group	Control Name	Compliance Score
	Dynamic Group Name	Simple Risk Score
	Entity Name	
	Name	
	Program Name	
Assessment Compliance Score by Dynamic Group(History)	Control Name	Compliance Score
	Dynamic Group Name	Simple Risk Score
	Entity Name	
	Name	
	Program Name	
	Updated On	
Assessment Compliance Score(History)	Control Name	Compliance Score
	Entity Name	Simple Risk Score
	Name	
	Program Name	
	Updated On	

View	Fields	Measures
Assessment Current Stage	Owner	
	Stage Name	
Assessments Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	

View	Fields	Measures
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	

View	Fields	Measures
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Assessments Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String	

View	Fields	Measures
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String	

View	Fields	Measures
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Assessments Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	

View	Fields	Measures
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	

View	Fields	Measures
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Assessments Workflow Details	Assessment Questionnaire	
	Assessment Questionnaire Owners	
	Assessment Stage Name	
	Assessment Workflow Stakeholders	
	Since Date	
Assessments Workflow Histories	Assessment Workflow Histroy Comment	
	Assessment Workflow History Date	
	Assessment Workflow Histroy Owner	
	Assessment Workflow Histroy Stage	

View	Fields	Measures
	Assessment Workflow Histroy Target User	
	Assessment Workflow Histroy To Stage	
Control Path	Control Path	
Entities	Created By	Accountability Impact
	Creation Time	Annual Maintenance
	Data Source(s)	Availability Impact
	Discovery Method	Availability Impact Cost Hours
	Entity Description	Average Remediation Time Days
	Entity Name	Business Value
	Entity Subtype	Business Value Hours
	Entity Type	Confidentiality Impact Cost Per Database
	First Seen Date	Confidentiality Impact Cost Per Record
	Installation Date	Confidentiality Impact
	Maintenance Date	Criticality
	Maintenance Reference	Data Integrity Cost
	Manufacturer	Hardware Replacement Cost
	Model	Integrity Impact
	Organization Name	Number Of Users
	Product Name	Operating Budget
	Security Classification	Single User Availability Cost

View	Fields	Measures
	Status	Software Replacement Cost
	Serial Number	
	Version	Status
	Warranty Expiration Date	
	Warranty Reference	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	
	Level 4	
	Level 5	
	Level 6	
	Level 7	
	Level 8	
	Level 9	
	Level 10	
	Level 11	
	Level 12	
	Level 13	
	Level 14	
	Level 15	
	Path	
	Root	
Assessment Exceptions	Control	Override Compliance Score

View	Fields	Measures
	Current Workflow Stage Name	Status
	Exception Name	
	Exception Number	
	Expiration	
	Next Review	
	Program	
	Reason For Exception	
	Recurrence End Date	
	Recurrence Start Date	
	Requested By	
	Risk	
	Status	
	Start	
	Status Modified By	
Survey Evidences	Content Type	Version
	Description	
	Document Caption	
	Name	
	URL	
	When Uploaded	
	Uploaded By	

Likelihood And Impact View	Fields	Measures
	Impact Caption 1	Impact Floor Score 1
	Impact Caption 2	Impact Floor Score 2
	Impact Caption 3	Impact Floor Score 3
	Impact Caption 4	Impact Floor Score 4
	Impact Caption 5	Impact Floor Score 5
	Impact Caption 6	Impact Floor Score 6
	Impact Caption 7	Impact Floor Score 7
	Impact Caption 8	Impact Floor Score 8
	Impact Caption 9	Impact Floor Score 9
	Impact Caption 10	Impact Floor Score 10
	Likelihood Caption 1	Likelihood Floor Score 1
	Likelihood Caption 2	Likelihood Floor Score 2
	Likelihood Caption 3	Likelihood Floor Score 3
	Likelihood Caption 4	Likelihood Floor Score 4
	Likelihood Caption 5	Likelihood Floor Score 5
	Likelihood Caption 6	Likelihood Floor Score 6
	Likelihood Caption 7	Likelihood Floor Score 7
	Likelihood Caption 8	Likelihood Floor Score 8

View	Fields	Measures
	Likelihood caption 9	Likelihood Floor Score 9
	Likelihood Caption 10	Likelihood Floor Score 10
	Overall Impact Caption	Overall Impact Floor Score
	Overall Likelihood Caption	Overall Likelihood Floor Score
		Impact Score 1
		Impact Score 2
		Impact Score 3
		Impact Score 4
		Impact Score 5
		Impact Score 6
		Impact Score 7
		Impact Score 8
		Impact Score 9
		Impact Score 10
		Likelihood Score 1
		Likelihood Score 2
		Likelihood Score 3
		Likelihood Score 4
		Likelihood Score 5
		Likelihood Score 6
		Likelihood Score 7
		Likelihood Score 8

View	Fields	Measures
		Likelihood Score 9
		Likelihood Score 10
		Overall Impact Score
		Overall Likelihood Score
Programs	Program Description	Assessment Duration
	Program Name	
	Program Owner	
	Program Type	
	Recurrence	
	Team	
	Workflow Name	
Assessment Responses	Action	Implementation Cost
	Comment	Override Compliance Score
	End Date	Time To Implement
	Mitigation Status	
	Owning Organization	
	Response Title	
	Start Date	
Assessments Response Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1

View	Fields	Measures
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	

View	Fields	Measures
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Assessments Response Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3

View	Fields	Measures
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	

View	Fields	Measures
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Assessments Response Custom Attributes 3	Custom Date 7	Custom Number 7

View	Fields	Measures
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	

View	Fields	Measures
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	

View	Fields	Measures
	Custom Text 5	
	Custom Text 6	
Assessment Tickets	Disposition	Percent Complete
	End	
	Exception Expiration Date	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority	
	Start	
	Status	
	Description	
	Ticket Identifier	
	Ticket Stage	
	Ticket Title	
	Ticket Type	
Assessment Findings	Control	
	Finding Created By	
	Finding Created On	

View	Fields	Measures
	Finding Current Stage	
	Finding Description	
	Entity	
	Finding Title	
	Finding Status	
	Finding Team	
	Impact	
	Individual	
	Finding Last Modified By	
	Finding Last Modified Date	
	Likelihood	
	Residual Likelihood	
	Residual Impact	
	Residual Risk Score	
	Inherent Risk Score	
Assessment Compensating Controls	Compensating Control Statement	
	Compensating Control Title	
	Created By	
	Last Update Time	
	Subcontrol	

View	Fields	Measures
AlwaysOn Assessment Compensating Controls	Compensating Control Statement	
	Compensating Control Title	
	Created By	
	Last Update Time	
	Subcontrol	
AlwaysOn Assessment Compensating Controls	Created By	
	Name	
	Title	
	Upate Time	
	Value	
AlwayOn Assessment Exception Request	Last Update Time	Risk
	Exception ID	Workflow Stage
	End Time	
	Name	
	Start Time	
	Stage	
	Status Modified By	
	Subcontrol	
AlwaysOn Assessment Finding	Asset Name	Custom Long 1
	Program Name	Custom Long 2
	Control Statement	Risk Score

View	Fields	Measures
	Created Date	
	Custom Flag 1	
	Custom Flag 2	
	Custom Date 1	
	Custom Date 2	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom Text 1	
	Custom Text 2	
	Description	
	Impact	
	Last Updated	
	Likelihood	
	Status	
	Owner	

View	Fields	Measures
	Team	
AlwaysOn Assessment Responses	Action Owner	
	Action Type	
	Mitigation Status	
	Mitigation Comment	
	Subcontrol	
	Title	
AlwaysOn Assessment Tickets	Created Time	Percent Complete
	Description	Risk Level
	Identifier	Stage
	Name	
	Owner Name	
	Status	
	Updated Time	
Control Groups	Control Group Name	
	Compliance Score	
	% Answered	
	Risk Score	

Note:

- Control Group Name will show the lowest-level Control Group, Control Objectives (if applicable), and Controls.
- The Compliance Score of the lowest level Control Group is the average of the Compliance Scores of the Controls in the Group.
- The % Answered of the lowest level Control Group is the average of %Answered of Controls in the Group.
- The Risk Score of the lowest level Control Group is the summation of the Risk Scores of the Controls in the Group.

Assessments Domain Part 2 of 2

View	Fields	Measures
Control Groups	Control Groups/Controls	
	Control Type	
	Compliance Score	
	% Answered	
	Risk Score	
Assessment Risk Details	Risk Permanent ID	
	Risk Title	
	Risk Categories	
	Risk Description	
	Assessment Risk Owner	
	Overall Likelihood	
	Overall Impact	
	Inherent Risk Score	
	Residual Risk Score	
	Current Risk Score	
Controls and Subcontrols Mapped To Risks	Control Title	Compliance Score
	Control Description	
	Subcontrol Title	
	Subcontrol Description	
	Subcontrol Test Date	
	Is Applicable	
	Selected Choice Text	
Responses Mapped To Risks	Response Title	Risk Reduction Percentage

View	Fields	Measures
	Response Owner	
	Response Action	
	Response Status	
	Response Last Updated	

Note:

- Control Group Name will show the lowest-level Control Group, Control Objectives (if applicable), and Controls.
- The Compliance Score of the lowest level Control Group is the average of the Compliance Scores of the Controls in the Group.
- The % Answered of the lowest level Control Group is the average of %Answered of Controls in the Group.
- The Risk Score of the lowest level Control Group is the summation of the Risk Scores of the Controls in the Group.

Controls Domain

Controls Domain			
Views		Fields	Measure
Content Packs	General	Author	
		Description	
		Rationale/Comments	
		Title	
	Ownerships	Owner	
		Ownership Name	
		Type	
	Workflow Details	End	
		From	
		Status	
		Start	
		To	
		Transition Action	
		Type	
	Recurrence	Notification Template	
		Recurrence	
	Tags	Category	
		Description	
		Name	
	Comments	Comment	
		Entered By	
		Entered Time	
	Applications	Solution	

	Content Packs Custom Attributes 1	Custom Date 1	Custom Number 1
		Custom Date 2	Custom Number 2
		Custom Date 3	Custom Number 3
		Custom Encrypted String 1	Custom Rational Number 1
		Custom Encrypted String 2	Custom Rational Number 2
		Custom Encrypted String 3	
		Custom Encrypted String 4	
		Custom Encrypted String 5	
		Custom Flag 1	
		Custom Flag 2	
		Custom Flag 3	
		Custom Flag 4	
		Custom Flag 5	
		Custom String 1	
		Custom String 2	
		Custom String 3	
		Custom String 4	
		Custom String 5	
		Custom String 6	
		Custom String 7	
		Custom String 8	
		Custom String 9	
		Custom String 10	
		Custom String 11	
		Custom String 12	

		Custom String 13	
		Custom String 14	
		Custom String 15	
		Custom String 16	
		Custom String 17	
		Custom String 18	
		Custom String 19	
		Custom String 20	
		Custom String 21	
		Custom String 22	
		Custom String 23	
		Custom String 24	
		Custom String 25	
		Custom Text 1	
		Custom Text 2	
	Content Packs Custom Attributes 2	Custom Date 4	Custom Number 4
		Custom Date 5	Custom Number 5
		Custom Date 6	Custom Number 6
		Custom Encrypted String 6	Custom Rational Number 3
		Custom Encrypted String 7	Custom Rational Number 4
		Custom Encrypted String 8	
		Custom Encrypted String 9	
		Custom Encrypted String 10	
		Custom Flag 6	
		Custom Flag 7	
		Custom Flag 8	

		Custom Flag 9	
		Custom Flag 10	
		Custom String 26	
		Custom String 27	
		Custom String 28	
		Custom String 29	
		Custom String 30	
		Custom String 31	
		Custom String 32	
		Custom String 33	
		Custom String 34	
		Custom String 35	
		Custom String 36	
		Custom String 37	
		Custom String 38	
		Custom String 39	
		Custom String 40	
		Custom String 41	
		Custom String 42	
		Custom String 43	
		Custom String 44	
		Custom String 45	
		Custom String 46	
		Custom String 47	
		Custom String 48	
		Custom String 49	

		Custom String 50	
		Custom Text 3	
		Custom Text 4	
	Content Packs Custom Attributes 3	Custom Date 7	Custom Number 7
		Custom Date 8	Custom Number 8
		Custom Date 9	Custom Number 9
		Custom Encrypted String 11	Custom Rational Number 5
		Custom Encrypted String 12	Custom Rational Number 6
		Custom Encrypted String 13	
		Custom Encrypted String 14	
		Custom Encrypted String 15	
		Custom Flag 11	
		Custom Flag 12	
		Custom Flag 13	
		Custom Flag 14	
		Custom Flag 15	
		Custom String 51	
		Custom String 52	
		Custom String 53	
		Custom String 54	
		Custom String 55	
		Custom String 56	
		Custom String 57	
		Custom String 58	
		Custom String 59	

		Custom String 60	
		Custom String 61	
		Custom String 62	
		Custom String 63	
		Custom String 64	
		Custom String 65	
		Custom String 66	
		Custom String 67	
		Custom String 68	
		Custom String 69	
		Custom String 70	
		Custom String 71	
		Custom String 72	
		Custom String 73	
		Custom String 74	
		Custom String 75	
		Custom Text 5	
		Custom Text 6	
Groups	General	Description	
		Group Details	
		Identifier	
		Title	
	Tags	Category	
		Description	
		Name	
	Applications	Solution	

	Control Groups Custom Attributes 1	Custom Date 1	Custom Number 1
		Custom Date 2	Custom Number 2
		Custom Date 3	Custom Number 3
		Custom Encrypted String 1	Custom Rational Number 1
		Custom Encrypted String 2	Custom Rational Number 2
		Custom Encrypted String 3	
		Custom Encrypted String 4	
		Custom Encrypted String 5	
		Custom Flag 1	
		Custom Flag 2	
		Custom Flag 3	
		Custom Flag 4	
		Custom Flag 5	
		Custom String 1	
		Custom String 2	
		Custom String 3	
		Custom String 4	
		Custom String 5	
		Custom String 6	
		Custom String 7	
		Custom String 8	
		Custom String 9	
		Custom String 10	
		Custom String 11	
		Custom String 12	
		Custom String 13	

		Custom String 14	
		Custom String 15	
		Custom String 16	
		Custom String 17	
		Custom String 18	
		Custom String 19	
		Custom String 20	
		Custom String 21	
		Custom String 22	
		Custom String 23	
		Custom String 24	
		Custom String 25	
		Custom Text 1	
		Custom Text 2	
	Control Groups Custom Attributes 2	Custom Date 4	Custom Number 4
		Custom Date 5	Custom Number 5
		Custom Date 6	Custom Number 6
		Custom Encrypted String 6	Custom Rational Number 3
		Custom Encrypted String 7	Custom Rational Number 4
		Custom Encrypted String 8	
		Custom Encrypted String 9	
		Custom Encrypted String 10	
		Custom Flag 6	
		Custom Flag 7	
		Custom Flag 8	

		Custom Flag 9	
		Custom Flag 10	
		Custom String 26	
		Custom String 27	
		Custom String 28	
		Custom String 29	
		Custom String 30	
		Custom String 31	
		Custom String 32	
		Custom String 33	
		Custom String 34	
		Custom String 35	
		Custom String 36	
		Custom String 37	
		Custom String 38	
		Custom String 39	
		Custom String 40	
		Custom String 41	
		Custom String 42	
		Custom String 43	
		Custom String 44	
		Custom String 45	
		Custom String 46	
		Custom String 47	
		Custom String 48	
		Custom String 49	

		Custom String 50	
		Custom Text 3	
		Custom Text 4	
	Control Groups Custom Attributes 3	Custom Date 7	Custom Number 7
		Custom Date 8	Custom Number 8
		Custom Date 9	Custom Number 9
		Custom Encrypted String 11	Custom Rational Number 5
		Custom Encrypted String 12	Custom Rational Number 6
		Custom Encrypted String 13	
		Custom Encrypted String 14	
		Custom Encrypted String 15	
		Custom Flag 11	
		Custom Flag 12	
		Custom Flag 13	
		Custom Flag 14	
		Custom Flag 15	
		Custom String 51	
		Custom String 52	
		Custom String 53	
		Custom String 54	
		Custom String 55	
		Custom String 56	
		Custom String 57	
		Custom String 58	
		Custom String 59	
		Custom String 60	

		Custom String 61	
		Custom String 62	
		Custom String 63	
		Custom String 64	
		Custom String 65	
		Custom String 66	
		Custom String 67	
		Custom String 68	
		Custom String 69	
		Custom String 70	
		Custom String 71	
		Custom String 72	
		Custom String 73	
		Custom String 74	
		Custom String 75	
		Custom Text 5	
		Custom Text 6	
Control Objectives	General	Author	Weight
		Created Time	
		Objective	
		Identifier	
		Last Updated Time	
		Other	
		Title	
		Version	
	Refernces	Name	

	Tags	Category	
		Description	
		Name	
	Documents	Size	
		Caption	
		Content Type	
		Description	
		URL	
		Valid Until Date	
		When Uploaded	
		Who Uploaded	
	Ownerships	Owner	
		Ownership Name	
		Type	
	Workflow Details	End	
		From	
		Status	
		Start	
		To	
		Transition Action	
		Type	
	Category	Name	
	Control Objectives Custom Attributes 1	Custom Date 1	Custom Number 1
		Custom Date 2	Custom Number 2
		Custom Date 3	Custom Number 3

		Custom Encrypted String 1	Custom Rational Number 1
		Custom Encrypted String 2	Custom Rational Number 2
		Custom Encrypted String 3	
		Custom Encrypted String 4	
		Custom Encrypted String 5	
		Custom Flag 1	
		Custom Flag 2	
		Custom Flag 3	
		Custom Flag 4	
		Custom Flag 5	
		Custom String 1	
		Custom String 2	
		Custom String 3	
		Custom String 4	
		Custom String 5	
		Custom String 6	
		Custom String 7	
		Custom String 8	
		Custom String 9	
		Custom String 10	
		Custom String 11	
		Custom String 12	
		Custom String 13	
		Custom String 14	
		Custom String 15	
		Custom String 16	

		Custom String 17	
		Custom String 18	
		Custom String 19	
		Custom String 20	
		Custom String 21	
		Custom String 22	
		Custom String 23	
		Custom String 24	
		Custom String 25	
		Custom Text 1	
		Custom Text 2	
	Control Objectives Custom Attributes 2	Custom Date 4	Custom Number 4
		Custom Date 5	Custom Number 5
		Custom Date 6	Custom Number 6
		Custom Encrypted String 6	Custom Rational Number 3
		Custom Encrypted String 7	Custom Rational Number 4
		Custom Encrypted String 8	
		Custom Encrypted String 9	
		Custom Encrypted String 10	
		Custom Flag 6	
		Custom Flag 7	
		Custom Flag 8	
		Custom Flag 9	
		Custom Flag 10	
		Custom String 26	

		Custom String 27	
		Custom String 28	
		Custom String 29	
		Custom String 30	
		Custom String 31	
		Custom String 32	
		Custom String 33	
		Custom String 34	
		Custom String 35	
		Custom String 36	
		Custom String 37	
		Custom String 38	
		Custom String 39	
		Custom String 40	
		Custom String 41	
		Custom String 42	
		Custom String 43	
		Custom String 44	
		Custom String 45	
		Custom String 46	
		Custom String 47	
		Custom String 48	
		Custom String 49	
		Custom String 50	
		Custom Text 3	
		Custom Text 4	

	Control Objectives Custom Attributes 3	Custom Date 7	Custom Number 7
		Custom Date 8	Custom Number 8
		Custom Date 9	Custom Number 9
		Custom Encrypted String 11	Custom Rational Number 5
		Custom Encrypted String 12	Custom Rational Number 6
		Custom Encrypted String 13	
		Custom Encrypted String 14	
		Custom Encrypted String 15	
		Custom Flag 11	
		Custom Flag 12	
		Custom Flag 13	
		Custom Flag 14	
		Custom Flag 15	
		Custom String 51	
		Custom String 52	
		Custom String 53	
		Custom String 54	
		Custom String 55	
		Custom String 56	
		Custom String 57	
		Custom String 58	
		Custom String 59	
		Custom String 60	
		Custom String 61	
		Custom String 62	

		Custom String 63	
		Custom String 64	
		Custom String 65	
		Custom String 66	
		Custom String 67	
		Custom String 68	
		Custom String 69	
		Custom String 70	
		Custom String 71	
		Custom String 72	
		Custom String 73	
		Custom String 74	
		Custom String 75	
		Custom Text 5	
		Custom Text 6	
Controls	General	Control Type	Weight
		Created By	
		Created Time	
		Control Statement	
		Identifier	
		Last Update Time	
		Status	
		Title	
		Version	
	Additional Details	Audience	
		Definitions	

		Key Points	
		Other	
		Purpose	
		Risk drivers	
		Scope	
		Supporting Information	
		Test Procedure	
		Value Drivers	
	Guidance	Guidance	
	References	Name	
	Tags	Category	
		Description	
		Name	
	Documents	Caption	
		Size	
		Content Type	
		Description	
		Name	
		URL	
		Valid Until Date	
		When Uploaded	
		Who Uploaded	
	Risks	ISO Domain Reference	
		Risk	
		Threat	
		Vulnerability	

	Target Profiles	Author	
		Created Time	
		Description	
		Updated Time	
		Title	
	Controls Paths	Controls Paths	Depth
	Controls Custom Attributes 1	Custom Date 1	Custom Number 1
		Custom Date 2	Custom Number 2
		Custom Date 3	Custom Number 3
		Custom Encrypted String 1	Custom Rational Number 1
		Custom Encrypted String 2	Custom Rational Number 2
		Custom Encrypted String 3	
		Custom Encrypted String 4	
		Custom Encrypted String 5	
		Custom Flag 1	
		Custom Flag 2	
		Custom Flag 3	
		Custom Flag 4	
		Custom Flag 5	
		Custom String 1	
		Custom String 2	
		Custom String 3	
		Custom String 4	
		Custom String 5	
		Custom String 6	

		Custom String 7	
		Custom String 8	
		Custom String 9	
		Custom String 10	
		Custom String 11	
		Custom String 12	
		Custom String 13	
		Custom String 14	
		Custom String 15	
		Custom String 16	
		Custom String 17	
		Custom String 18	
		Custom String 19	
		Custom String 20	
		Custom String 21	
		Custom String 22	
		Custom String 23	
		Custom String 24	
		Custom String 25	
		Custom Text 1	
		Custom Text 2	
	Controls Custom Attributes 2	Custom Date 4	Custom Number 4
		Custom Date 5	Custom Number 5
		Custom Date 6	Custom Number 6
		Custom Encrypted String 6	Custom Rational Number 3
		Custom Encrypted String 7	Custom Rational Number 4

		Custom Encrypted String 8	
		Custom Encrypted String 9	
		Custom Encrypted String 10	
		Custom Flag 6	
		Custom Flag 7	
		Custom Flag 8	
		Custom Flag 9	
		Custom Flag 10	
		Custom String 26	
		Custom String 27	
		Custom String 28	
		Custom String 29	
		Custom String 30	
		Custom String 31	
		Custom String 32	
		Custom String 33	
		Custom String 34	
		Custom String 35	
		Custom String 36	
		Custom String 37	
		Custom String 38	
		Custom String 39	
		Custom String 40	
		Custom String 41	
		Custom String 42	
		Custom String 43	

		Custom String 44	
		Custom String 45	
		Custom String 46	
		Custom String 47	
		Custom String 48	
		Custom String 49	
		Custom String 50	
		Custom Text 3	
		Custom Text 4	
	Controls Custom Attributes 3	Custom Date 7	Custom Number 7
		Custom Date 8	Custom Number 8
		Custom Date 9	Custom Number 9
		Custom Encrypted String 11	Custom Rational Number 5
		Custom Encrypted String 12	Custom Rational Number 6
		Custom Encrypted String 13	
		Custom Encrypted String 14	
		Custom Encrypted String 15	
		Custom Flag 11	
		Custom Flag 12	
		Custom Flag 13	
		Custom Flag 14	
		Custom Flag 15	
		Custom String 51	
		Custom String 52	
		Custom String 53	
		Custom String 54	

		Custom String 55	
		Custom String 56	
		Custom String 57	
		Custom String 58	
		Custom String 59	
		Custom String 60	
		Custom String 61	
		Custom String 62	
		Custom String 63	
		Custom String 64	
		Custom String 65	
		Custom String 66	
		Custom String 67	
		Custom String 68	
		Custom String 69	
		Custom String 70	
		Custom String 71	
		Custom String 72	
		Custom String 73	
		Custom String 74	
		Custom String 75	
		Custom Text 5	
		Custom Text 6	
Subcontrols	General	Assessment Procedures	Key Control
		Author	Weight

		Created	
		Description	
		Help Text	
		Identifier	
		Last Updated	
		Parent Control	
		Description	
		Title	
		Question Name	
		Question Text	
		Status	
		Version	
	Question Details	Choice Text	Choice Score
		Comment Required	Risk Score
		Deficiency Required	
		Evidence Description	
		Evidence Required	
	Dependency	Assessment Procedures	Key Control
		Author	Question Type
		Created	Weight
		Description	
		Help Text	
		Identifier	
		Last Updated	
		Parent Control	
		Description	

		Title	
		Question Name	
		Question Text	
		Status	
		Version	
	References	Name	
	Tags	Category	
		Description	
		Name	
	Documents	Caption	
		Size	
		Content Type	
		Description	
		URL	
		Valid Until Date	
		When Uploaded	
		Who Uploaded	
	Risks	ISO Domain Reference	
		Risk	
		Threat	
		Vulnerability	
	Target Profiles	Author	
		Created Time	
		Description	
		Updated Time	
		Title	

	Assignments	Assigned Assessment	
		Control	
		Program	
	Subcontrols Paths	Subcontrols Paths	Depth
	Subcontrol Path Target	Target Sub Controls Paths	Depth
	Subcontrol Reference Target	Name	
	Subcontrols Custom Attributes 1	Custom Date 1	Custom Number 1
		Custom Date 2	Custom Number 2
		Custom Date 3	Custom Number 3
		Custom Encrypted String 1	Custom Rational Number 1
		Custom Encrypted String 2	Custom Rational Number 2
		Custom Encrypted String 3	
		Custom Encrypted String 4	
		Custom Encrypted String 5	
		Custom Flag 1	
		Custom Flag 2	
		Custom Flag 3	
		Custom Flag 4	
		Custom Flag 5	
		Custom String 1	
		Custom String 2	
		Custom String 3	
		Custom String 4	
		Custom String 5	
		Custom String 6	
		Custom String 7	

		Custom String 8	
		Custom String 9	
		Custom String 10	
		Custom String 11	
		Custom String 12	
		Custom String 13	
		Custom String 14	
		Custom String 15	
		Custom String 16	
		Custom String 17	
		Custom String 18	
		Custom String 19	
		Custom String 20	
		Custom String 21	
		Custom String 22	
		Custom String 23	
		Custom String 24	
		Custom String 25	
		Custom Text 1	
		Custom Text 2	
	Subcontrols Custom Attributes 2	Custom Date 4	Custom Number 4
		Custom Date 5	Custom Number 5
		Custom Date 6	Custom Number 6
		Custom Encrypted String 6	Custom Rational Number 3
		Custom Encrypted String 7	Custom Rational Number 4

		Custom Encrypted String 8	
		Custom Encrypted String 9	
		Custom Encrypted String 10	
		Custom Flag 6	
		Custom Flag 7	
		Custom Flag 8	
		Custom Flag 9	
		Custom Flag 10	
		Custom String 26	
		Custom String 27	
		Custom String 28	
		Custom String 29	
		Custom String 30	
		Custom String 31	
		Custom String 32	
		Custom String 33	
		Custom String 34	
		Custom String 35	
		Custom String 36	
		Custom String 37	
		Custom String 38	
		Custom String 39	
		Custom String 40	
		Custom String 41	
		Custom String 42	
		Custom String 43	

		Custom String 44	
		Custom String 45	
		Custom String 46	
		Custom String 47	
		Custom String 48	
		Custom String 49	
		Custom String 50	
		Custom Text 3	
		Custom Text 4	
	Subcontrols Custom Attributes 3	Custom Date 7	Custom Number 7
		Custom Date 8	Custom Number 8
		Custom Date 9	Custom Number 9
		Custom Encrypted String 11	Custom Rational Number 5
		Custom Encrypted String 12	Custom Rational Number 6
		Custom Encrypted String 13	
		Custom Encrypted String 14	
		Custom Encrypted String 15	
		Custom Flag 11	
		Custom Flag 12	
		Custom Flag 13	
		Custom Flag 14	
		Custom Flag 15	
		Custom String 51	
		Custom String 52	
		Custom String 53	
		Custom String 54	

		Custom String 55	
		Custom String 56	
		Custom String 57	
		Custom String 58	
		Custom String 59	
		Custom String 60	
		Custom String 61	
		Custom String 62	
		Custom String 63	
		Custom String 64	
		Custom String 65	
		Custom String 66	
		Custom String 67	
		Custom String 68	
		Custom String 69	
		Custom String 70	
		Custom String 71	
		Custom String 72	
		Custom String 73	
		Custom String 74	
		Custom String 75	
		Custom Text 5	
		Custom Text 6	
Spacer			

Datafeeds Domain

Datafeeds Domain		
View	Fields	Measure
Data Feeds Details	Check Identification	Check ID
	Check Name	Float 1
	Created Time	Float 2
	Data Feed Comment	Score
	Data Feed Type	
	Entity Identification	
	Entity Name	
	First Seen Time	
	Host Name	
	IP Address	
	Last Seen Time	
	Data Feed Name	
	Owner	
	Source Name	
	Status	
	String 1	
	String 2	
	String 3	
	String 4	
	String 5	
	String 6	
	String 7	
	String 8	

	String 9	
	String 10	
	Time Stamp 1	
	Time Stamp 2	
Data Feeds Documents	Caption	
	Description	
	Expires On	
	Size	
	Name	
	Uploaded By	
	Uploaded By First Name	
	Uploaded By Last Name	
	Uploaded By Middle Name	
	Uploaded On	
Data Feeds Histories	Data Feed Comment	Score
	Data Feed Type	
	First Seen Time	
	Name	
	Status	

Entities Domain

Entities Domain		
Views	Fields	
Entities(All Type)		Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Last Updated
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Model
		Organization Name
		Product Name
		Status
		Serial Number
		Version
		Warranty Expiration Date
		Warranty Reference
Entities Applications	General	Created By

		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Accounts
		Application Version
		Internet Facing
		Port(s)
		Publisher
Entities Computers	General	Created By
		Created Time

		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Domain Name
		Host Name
		Processor Name
		Roles
	Installed Applications	Application Type
		Status
		System Component
		Update Status
		Update Time

	Computersystems To Ports	Comment
	Computersystems To Services	Account Name
		Comment
		Operational State
		Operational Status
		Path Name
		Service Type
		Start Mode
	Network Interfaces	Alias Addresses
		Caption
		Description
		DHCP Enabled
		DHCP Lease Expires
		DHCP Lease Obtained
		DNS Servers
		Element Name
		Group Addresses
		Install Date
		IP Address
		LAN ID
		MAC Address
		Friendly Name
		Name Format
		Network Zone
		Operational Status

		System Name
		Time Of Last State Change
		WINS Server
		Wireless Status
	Filesystems	Caption
		Case Preserved
		Case Sensitive
		Code Set
		Compression Method
		Description
		Element Name
		Encryption Method
		File System Type
		Install Date
		Unique Name
		Operational Status
		Root
		Time Of Last State Change
	Local Accounts	Description
		Disabled Flag
		Domain
		Full Name
		Install Date
		Local Account Flag
		Lockout Flag

		Name
		Password Changeable Flag
		Password Expires Flag
		Password Required Flag
		Screensaver Active Flag
		Screensaver Secure Flag
		Status
		Type
	Local Groups	Caption
		Description
		Domain
		Unique Name
		Status
		Type
	Logical Devices	Caption
		Description
		Element Name
		Install Date
		Unique Name
		Operational Status
		Time Of Last State Change
	Networks	Network Address
		DNS servers
		Managed
		Observed
		Wireless Channel

		Wireless Encryption
		Wireless Network name
		Wireless Security mode
		Wireless SSID Broadcast
	Operating Systems	Caption
		Description
		Distributed
		Element Name
		Enabled State
		Install Date
		Last Boot Up Time
		Local Date Time
		Name
		Operational Status
		Serial Number
		Time Of Last State Change
		Version
		Version Name
	Ports	Description
		Port Number
		Protocol
		Unique Name
	Port To Network Interfaces	Comment
	Procs	Caption
		Description
		Element Name

		Handle
		Install Date
		Name
		Termination Date
		Time Of Last State Change
	Services	Description
		Name
	Network Shares	Allow Maximum Flag
		Description
		Unique Name
		Path
		Status
		Type
	Entities Source Information	Source Caption
		Connector Name
		Connector Type
		Icon
Entities Data	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Name
		Entity Description
		Entity Subtype
		Entity Type
		First Seen Date

		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Archive Location
		Archive Media
		Archive Method
		Is Archived
		Authorized Users
		Data Is Encrypted
		Encryption Method
		Data Format
		Last Complete Archive Date
		Storage Media
		Password Owner
		Is Data Password Protected
		Data Path
Entities Devices	General	Created By
		Created Time
		Data Source(s)

		Discovery Method
		Entity Name
		Entity Description
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Firmware Version
Entities Engagements	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Name
		Entity Description
		Entity Subtype
		Entity Type

		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Default Flag
		Service Type
		Vendor Service Tier
Entities Groups	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference

		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Business Category
		Common Name
		Created
		Domain Name
		Element Name
		Instance Type
		Last Updated
		Object GUID
		SAM Account Name
Entities Mobile Devices	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date

		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Additional Mobile Number
		Bluetooth
		Bluetooth Address
		Carrier Name
		Device Network Type
		Display
		Integrated Circuits Identifier (ICCID)
		International mobile Equipement Identlty (IMEI)
		International mobile Equipement Identlty Software Version (IMEISV)
		Domain Name
		Host Name
		Main Camera
		Memory
		Mobile Number
		Model Number
		Modem Firmware

		Processor Name
		Roles
		Service State
		Wi-Fi
		Wi-Fi Address
Entities Networks	General	Created By
		Created Time
		Data Source(s)
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Network Address
		DNS Servers
		Managed

		Observed
		Wireless Channel
		Wireless Encryption
		Wireless Network Name
		Wireless Security Mode
		Wireless SSID Broadcast
Entities People	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference

	Description	Business Category
		Email Address
		Employee Number
		Employee Type
		Home Phone
		Mobile
		Preferred Language
		Telephone Number
		Title
Entities Processes	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version

		Warranty Expiration Date
		Warranty Reference
	Description	Business Function
		Department
		Responsibile Person
Entites Vendors	General	Created By
		Created Time
		Data Source(s)
		Discovery Method
		Entity Description
		Entity Name
		Entity Subtype
		Entity Type
		First Seen Date
		Installation Date
		Maintenance Date
		Maintenance Reference
		Manufacturer
		Product Name
		Serial Number
		Status
		Version
		Warranty Expiration Date
		Warranty Reference
	Description	Login Message
		Preferred Vendor

		Activated
		Data Access
		Vendor Previous Name
		Vendor Relationship
		Vendor Status
		Vendor Tier
		Type
Entities Classification		Accountability
		Availability
		Business Criticality
		Confidentiality
		Integrity
		Security Classification
Entities Addresses		Address
		Address Name
		Address Type
		Building
		City
		Country
		Floor
		Postal Code
		Region
		State/Province
Entities Documents		Caption
		Description
		Expires On

		Name
		Size
		Uploaded by
		Uploaded on
Entities Hierarchy		Hierarchy Description
		Level 2
		Level 3
		Level 4
		Level 5
		Level 6
		Level 7
		Level 8
		Level 9
		Level 10
		Level 11
		Level 12
		Level 13
		Level 14
		Level 15
		Path
		Root
Entities Ownerships		Entity Type

		Entity Name
		Owner
		Ownership Type
Entites Relationships		Entity Subtype
		Entity Type
		Name
		Relationship Name
Entities Tag		Tag Category
		Tag Name
Entities Classification Histories		Changed Attribute
		New Value
		Old Value
		Operation Time
		Operation Type
		Who
Entities Custom Attributes 1		
		Custom Date 1
		Custom Date 2
		Custom Date 3
		Custom Encrypted String 1
		Custom Encrypted String 2
		Custom Encrypted String 3
		Custom Encrypted String 4
		Custom Encrypted String 5
		Custom Flag 1
		Custom Flag 2

		Custom Flag 3
		Custom Flag 4
		Custom Flag 5
		Custom String 1
		Custom String 2
		Custom String 3
		Custom String 4
		Custom String 5
		Custom String 6
		Custom String 7
		Custom String 8
		Custom String 9
		Custom String 10
		Custom String 11
		Custom String 12
		Custom String 13
		Custom String 14
		Custom String 15
		Custom String 16
		Custom String 17
		Custom String 18
		Custom String 19
		Custom String 20
		Custom String 21
		Custom String 22
		Custom String 23

		Custom String 24
		Custom String 25
		Custom Text 1
		Custom Text 2
Entities Custom Attributes 2		Custom Date 4
		Custom Date 5
		Custom Date 6
		Custom Encrypted String 6
		Custom Encrypted String 7
		Custom Encrypted String 8
		Custom Encrypted String 9
		Custom Encrypted String 10
		Custom Flag 6
		Custom Flag 7
		Custom Flag 8
		Custom Flag 9
		Custom Flag 10
		Custom String 26
		Custom String 27
		Custom String 28
		Custom String 29
		Custom String 30
		Custom String 31
		Custom String 32
		Custom String 33
		Custom String 34

		Custom String 35
		Custom String 36
		Custom String 37
		Custom String 38
		Custom String 39
		Custom String 40
		Custom String 41
		Custom String 42
		Custom String 43
		Custom String 44
		Custom String 45
		Custom String 46
		Custom String 47
		Custom String 48
		Custom String 49
		Custom String 50
		Custom Text 3
		Custom Text 4
Entities Custom Attributes 3		Custom Date 7
		Custom Date 8
		Custom Date 9
		Custom Encrypted String 11
		Custom Encrypted String 12
		Custom Encrypted String 13
		Custom Encrypted String 14

		Custom Encrypted String 15
		Custom Flag 11
		Custom Flag 12
		Custom Flag 13
		Custom Flag 14
		Custom Flag 15
		Custom String 51
		Custom String 52
		Custom String 53
		Custom String 54
		Custom String 55
		Custom String 56
		Custom String 57
		Custom String 58
		Custom String 59
		Custom String 60
		Custom String 61
		Custom String 62
		Custom String 63
		Custom String 64
		Custom String 65
		Custom String 66
		Custom String 67
		Custom String 68
		Custom String 69
		Custom String 70

		Custom String 71
		Custom String 72
		Custom String 73
		Custom String 74
		Custom String 75
		Custom Text 5
		Custom Text 6
	Measures	
Entities Applications	Description	IPv4 Address
Entities Computers	Computersystems To Ports	Source
	Computersystems To Services	Source
	Network Interfaces	Data Source
		DHCP Server
		Enabled Default
		Enabled State
		Gateway
		IPv4 Address
		Max Data Size
		Network Address
		Prefix Length
		Primary WINS Server

		Protocol IF Type
		Requested State
		Secondary WINS Server
		Subnet Mask
	Filesystems	Available Space
		Block Size
		Cluster Size
		Enabled Default
		Enabled State
		File System Size
		Max File Name Length
		Persistence Type
		Requested State
	Local Accounts	Data Source
		Screensaver Timeout
	Local Groups	Data Source
	Logical Devices	Availability
		Enabled Default
		Enabled State
	Networks	DHCP Server
		External IP address
		Gateway
		IP Address End
		IP Address Start
		Primary WINS server

		Secondary WINS server
		Subnet Mask
	Operating Systems	Current Time Zone
		Enabled Default
		Max Number Of Processes
		Max Process Memory Size
		Max Processes Per User
		Number Of Licensed Users
		OS Type
		Requested State
		Size Stored In Paging Files
		Total Swap Space Size
		Total Virtual Memory Size
		Total Visible Memory Size
	Port To Network Interfaces	Source
	Procs	Execution State
		Logical Port
		Workingset Size
	Network Shares	Data Source
		Maximum Allowed
	Entities Source Information	License ID
Entities Groups	Description	Group Type
Entities Networks	Description	DHCP Server
		External IP Address
		Gateway
		IP Address End

		IP Address Start
		Primary WINS Server
		Secondary WINS Server
		Subnet Mask
Entities Costs And Impacts		Annual Maintenance($ per year)
		Availability Impact Cost Per hour($)
		Average Remediation Time (days)
		Business Value
		Business Value Hours($)
		Confidentiality Impact Cost Per Database($)
		Confidentiality Impact Cost Per Record($)
		Data Integrity Cost($)
		Hardware Replacement Cost($)
		Number Of Users
		Operating Budge($ per day)
		Single User Availability Cost($ per day)
		Software Replacement Cost($)
Entities Documents		Version
Entities Custom Attributes 1		Custom Number 1
		Custom Number 2
		Custom Number 3
		Custom Rational Number 1
		Custom Rational Number 2
Entities Custom Attributes 2		Custom Number 4
		Custom Number 5
		Custom Number 6

		Custom Rational Number 3
		Custom Rational Number 4
Entities Custom Attributes 3		Custom Number 7
		Custom Number 8
		Custom Number 9
		Custom Rational Number 5
		Custom Rational Number 6
Vulnerability Compensating Controls		Name
		Status
		Last Updated

Exceptions Domain

Exceptions Domain		
View	Fields	Measure
Exceptions	Control	Override Compliance Score
	Current Workflow Stage Name	
	Exception Name	
	Exception Number	
	Expiration	
	Next Review	
	Program	
	Reason For Exception	
	Recurrence End Date	
	Recurrence Start Date	
	Requested By	
	Risk	
	Start	
	Status Modified By	
Exceptions Comments	Commented By	
	Commented By First Name	
	Commented By Last Name	
	Commented By Middle Name	
	Comment	
	Posted	
Exceptions Documents	Description	Version
	Name	
	Uploaded By	

	Uploaded On	
	Caption	
	Size	
	Expires On	
Compensating Controls	Assessment	
	Subcontrol	
	Compensating Control Statement	
	Compensating Control Title	
	Created By	
	Last Updated	
Exceptions Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	Exceptions Custom Attributes 2
	Custom Encrypted String 4	Custom Number 4
	Custom Encrypted String 5	Custom Number 5
	Custom Flag 1	Custom Number 6
	Custom Flag 2	Custom Rational Number 3
	Custom Flag 3	Custom Rational Number 4
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	

	Custom String 3
	Custom String 4
	Custom String 5
	Custom String 6
	Custom String 7
	Custom String 8
	Custom String 9
	Custom String 10
	Custom String 11
	Custom String 12
	Custom String 13
	Custom String 14
	Custom String 15
	Custom String 16
	Custom String 17
	Custom String 18
	Custom String 19
	Custom String 20
	Custom String 21
	Custom String 22
	Custom String 23
	Custom String 24
	Custom String 25
	Custom Text 1
	Custom Text 2
Exceptions Custom Attributes 2	Custom Date 4

Custom Date 5

Custom Date 6

Custom Encrypted String 6

Custom Encrypted String 7

Custom Encrypted String 8

Custom Encrypted String 9

Custom Encrypted String 10

Custom Flag 6

Custom Flag 7

Custom Flag 8

Custom Flag 9

Custom Flag 10

Custom String 26

Custom String 27

Custom String 28

Custom String 29

Custom String 30

Custom String 31

Custom String 32

Custom String 33

Custom String 34

Custom String 35

Custom String 36

Custom String 37

Custom String 38

Custom String 39

	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Exceptions Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

	Custom Text 6	
Entities	Created By	Accountability Impact
	Creation Time	Annual Maintenance
	Data Source(s)	Availability Impact
	Entity Description	Availability Impact Cost Hours
	Discovery Method	Average Remediation Time Days
	Entity Subtype	Business Value
	Entity Type	Business Value Hours
	First Seen Date	Confidentiality Impact Per Database
	Installation Date	Confidentiality Impact Per Record
	Maintenance Date	Confidentiality Impact
	Maintenance Reference	Criticality
	Manufacturer	Data Integrity Cost
	Model	Hardware Replacement Cost
	Entity Name	Integrity Impact
	Organization Name	Number Of Users
	Product Name	Operational Budget
	Security Classification	Single User Availability Cost
	Serial Number	Software Replacement Cost
	Status	
	Version	
	Warranty Expiration Date	
	Warranty Reference	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	

	Level 4
	Level 5
	Level 6
	Level 7
	Level 8
	Level 9
	Level 10
	Level 11
	Level 12
	Level 13
	Level 14
	Level 15
	Path
	Root
Exceptions Workflow Owners	Current Workflow Stage Name
	Workflow Owner
	Workflow Owner First Name
	Workflow Owner Last Name
	Workflow Owner Middle Name
Exceptions Workflow Histories	Action
	Comment
	Date
	Status
	Target User
	To Stage
	User

	User First Name
	User Last Name
	User Middle Name
Findings	Control
	Created By
	Created On
	Current Stage
	Entity
	Finding Description
	Finding Title
	Impact
	Individual
	Last Modified By
	Last Modified Date
	Likelihood
	Residual Impact
	Residual Likelihood
	Residual Risk Score
	Risk Score
	Status
	Team
Spacer	

Finding Domain

Findings Domain		
View	Fields	Measure
Findings	Control	
	Created By	
	Created On	
	Current Stage	
	Entity	
	Finding Description	
	Individual	
	Last Modified By	
	Last Modified Date	
	Finding Status	
	Finding Team	
	Finding Title	
Entities	Created By	Accountability Impact
	Created Time	Annual Maintenance
	Entity Description	Availability Impact
	Discovery Method	Availability Impact Cost Hours
	Entity Subtype	Average Remediation Time Days
	Entity Type	Business Value
	First Seen Date	Business Value Hours
	Installation Date	Confidentiality Impact Cost Per Database
	Maintenance Date	Confidentiality Impact Cost Per Record
	Maintenance Reference	Confidentiality Impact

	Manufacturer	Criticality
	Model	Data Integrity Cost
	Organization Name	Hardware Replacement Cost
	Product Name	Integrity Impact
	Security Classification	Number Of Users
	Serial Number	Operational Budget
	Version	Single User Availability Cost
	Warranty Expiration Date	Software Replacement Cost
	Warranty Reference	
	Data Source(s)	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	
	Level 4	
	Level 5	
	Level 6	
	Level 7	
	Level 8	
	Level 9	
	Level 10	
	Level 12	
	Level 13	
	Level 14	
	Level 15	
	Path	
	Root	

Entities Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Category	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	

	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Entities Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	

	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	

	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Entities Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	

	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Findings Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	

	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	

	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Findings Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	

	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Findings Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	

	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	

	Custom String 69	
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Risk Assessments	Impact	
	Likelihood	
	Residual Impact	
	Residual Likelihood	
	Residual Risk Score	
	Risk Score	
Responses	Action	Implementation Cost
	Comment	Override Compliance Score
	End Date	Time To Implement
	Mitigation Status	
	Owning Organization	
	Start Date	
	Response Title	
Tickets	Disposition	Progress
	End	
	Exception Expiration Date	
	Owner	

	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority	
	Start	
	Status	
	Ticket Description	
	Ticket Identifier	
	Ticket Stage	
	Ticket Title	
	Ticket Type	
Findings Documents	Caption	Version
	Description	
	Expires On	
	Uploaded By	
	Name	
	Uploaded On	
	Size	
Findings Workflow Owners	Current Workflow Stage	
	Workflow Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
Findings Workflow Histories	Action	

	Comment	
	Date	
	From Stage	
	Target User	
	To Stage	
	User	
	User First Name	
	User Last Name	
	User Middle Name	
Findings Change Histories	Change	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Responses Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	

	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	

	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Responses Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	

	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Responses Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	

	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	

	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Assessments	Archived	Compliance Score
	Assessment Owner	Current Risk Score
	Assessment Ownership Type	Inherent Risk Score
	Create Date	Progress
	Current Status	Residual Risk Score
	Due Date	Simple Risk Score
	End Date	
	Is Not Closed	
	Name	
	Version	
Exceptions	Compensating Controls	Override Compliance Score
	Control	
	Current Workflow Stage Name	
	Exception Number	
	Exception Title	
	Expiration	
	Next Review	

	Program	
	Reason For Exception	
	Recurrence End Date	
	Recurrence Start Date	
	Requested By	
	Risk	
	Start	
	Status Modified By	
Programs	Description	Assessment Duration
	Program Name	
	Program Owner	
	Program Team	
	Program Type	
	Recurrence	
	Workflow Name	
Spacer		

Incidents Domain

Incidents Domain		
Views	Fields	Measure
Incidents	Due Date	
	Incident Description	
	Incident Number	
	Incident Submitter	
	Incident Subtype	
	Incident Type	
	Time Detected	
	Time Ended	
	Time Received	
	Time Started	
	Time Updated	
	Incident Title	
Entities	Created By	Accountability Impact
	Created Time	Annual Maintenance
	Entity Description	Availability Impact
	Entity Subtype	Availability Impact Cost Hours
	Entity Type	Average Remediation Time Days
	Discovery Method	Business Value
	First Seen Date	Business Value Hours
	Installation Date	Confidentiality Impact Cost Per Database
	Maintenance Date	Confidentiality Impact Cost Per Record
	Maintenance Reference	Confidentiality Impact
	Manufacturer	Criticality

	Model	Data Integrity Cost
	Entity Name	Hardware Replacement Cost
	Organization Name	Integrity Impact
	Product Name	Number Of Users
	Security Classification	Operating Budget
	Serial Number	Single User Availability Cost
	Version	Software Replacement Cost
	Warranty Expiration Date	
	Warranty Reference	
	Data Source(s)	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	
	Level 4	
	Level 5	
	Level 6	
	Level 7	
	Level 8	
	Level 9	
	Level 10	
	Level 11	
	Level 12	
	Level 13	
	Level 14	
	Level 15	
	Path	

	Root	
Incidents Comments	Commented By	
	Commented By First Name	
	Commented By Last Name	
	Commented By Middle Name	
	Comments	
	Comment Posted	
Incident Additional Actions	Additional Actions	Estimated Cost
	Availability Affected	Impact
	Business Criticality	Likelihood
	Cause Analysis	
	Confidentiality Affected	
	Current Stage	
	Integrity Affected	
	Last Updated	
	Preventive Measures	
	Priority	
	Severity	
Related Incidents	Related Incident Description	
	Related Due Date	
	Related Incident Number	
	Related Incident Submitter	
	Related Incident Subtype	
	Related Incident Title	
	Related Incident Type	
	Related Time Detected	

	Related Time Ended	
	Related Time Received	
	Related Time Started	
Incident Risk Assessment	Assigned To	Progress
	Control	
	Status	
Risk Assessments Ownerships	Owner	
	Ownership Type	
Incident Risk Summary	Incident Impact	
	Incident Likelihood	
	Incident Risk	
Incidents To Actions	Action Description	
	Action Summary	
	Action Time	
	Resolution	
	Status	
	User First Name	
	User Last Name	
	User Middle Name	
Tickets	Disposition	Percent Complete
	End	
	Exception Expiration Date	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	

	Planned End
	Planned Start
	Priority
	Stage
	Start
	Status
	Ticket Description
	Ticket Identifier
	Ticket Title
	Ticket Type
Threats	Threat Category Name
	Threat Description
	Threat Title
Incident Ownership	Owner Name
	Ownership Type
Incidents Current Workflow Stakeholder	Current Workflow Stage Name
	Workflow Owner
	Workflow Owner First Name
	Workflow Owner Last Name
	Workflow Owner Middle Name
	Team
Incident Workflow History	Action
	Comment
	Date
	Owner
	Status

	Target User	
	To Stage	
Incidents To Controls	Referenced Object Type	
	Referenced Object Title	
Controls	Audience	Alpha
	Created By	Beta
	Created Time	Weight
	Definitions	
	Control Statement	
	Identifier	
	Key Points	
	Last Update Time	
	Other	
	Purpose	
	Scope	
	Status	
	Supporting Information	
	Control Title	
	Version	
Controls Paths	Controls Paths	Depth
Subcontrols	Assessment Procedures	Key Control
	Author	Question Type
	Created	Weight
	Help Text	
	Identifier	
	Last Updated	

	Parent Control	
	Subcontrol Description	
	Subcontrol Title	
	Question Name	
	Question Text	
	Status	
	Question Description	
	Version	
Subcontrols Paths	Subcontrol Path	Depth
Incidents Documents	Caption	Version
	Name	
	Description	
	Expires On	
	Uploaded By	
	Uploaded On	
	Size	
Incidents Change Histories	Change	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Incidents Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1

Custom Encrypted String 2

Custom Encrypted String 3

Custom Encrypted String 4

Custom Encrypted String 5

Custom Flag 1

Custom Flag 2

Custom Flag 3

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom String 16

Custom String 17

Custom String 18

Custom Rational Number 2

	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Incidents Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	

	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Incidents Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9

Custom Encrypted String 11

Custom Encrypted String 12

Custom Encrypted String 13

Custom Encrypted String 14

Custom Encrypted String 15

Custom Flag 11

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom Rational Number 5

Custom Rational Number 6

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

Custom Text 6

Spacer

Programs Domain

Programs Domain		
View	Fields	Measure
Programs	Description	Assessment Duration
	Program Name	
	Program Owner	
	Program Type	
	Recurrence	
	Team	
	Workflow Name	
Programs Comments	Commented By	
	Commented By First Name	
	Commented By Last Name	
	Commented By Middle Name	
	Comments	
	Posted	
Programs Documents	Caption	Version
	Description	
	Expires On	
	Uploaded By	
	Name	
	Size	
	Uploaded On	
Controls	Audience	Alpha
	Controls Paths	Beta
	Created By	Depth

	Created Time	Weight
	Definitions	
	Control Statement	
	Identifier	
	Key Points	
	Last Updated Time	
	Other	
	Purpose	
	Scope	
	Status	
	Supporting Information	
	Title	
	Version	
Subcontrols	Assessment Procedures	Depth
	Author	Key Control
	Created	Question Type
	Help Text	Weight
	Identifier	
	Last Updated	
	Parent Control	
	Control Description	
	Control Title	
	Question Name	
	Question Text	
	Status	
	Subcontrols Paths	

	Version	
Assessments	Archived	Compliance Score
	Created Date	Current Risk Score
	Current Status	Inherent Risk Score
	Due Date	Progress
	End Date	Residual Risk Score
	Is Not Closed	Simple Risk Score
	Name	
	Version	
Entities	Created By	Accountability Impact
	Created Time	Annual Maintenance
	Discovery Method	Availability Impact
	Entity Description	Availability Impact Cost Hours
	Entity Name	Average Remediation Time Days
	Entity Owner Name	Business Value
	Entity Ownership Type	Business Value Hours
	Entity Subtype	Confidentiality Impact Cost Per Database
	Entity Type	Confidentiality impact Cost Per Record
	First Seen Date	Confidentiality Impact
	Installation Date	Criticality
	Maintenance Date	Data Integrity Cost
	Maintenance Reference	Data Source(s)
	Manufacturer	Hardware Replacement Cost
	Model	Integrity Impact
	Organization Name	Number Of Users
	Product Name	Operational Budget

	Security Classification	Single User Availability Cost
	Status	
	Serial Number	Software Replacement Cost
	Version	
	Warranty Expiration Date	
	Warranty Reference	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	
	Level 4	
	Level 5	
	Level 6	
	Level 7	
	Level 8	
	Level 9	
	Level 10	
	Level 11	
	Level 12	
	Level 13	
	Level 14	
	Level 15	
	Path	
	Root	
Programs Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3

Custom Encrypted String 1

Custom Encrypted String 2

Custom Encrypted String 3

Custom Encrypted String 4

Custom Encrypted String 5

Custom Flag 1

Custom Flag 2

Custom Flag 3

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom String 16

Custom Rational Number 1

Custom Rational Number 2

	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Programs Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	

	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Programs Custom Attributes 3	Custom Date 7	Custom Number 7

Custom Date 8

Custom Date 9

Custom Encrypted String 11

Custom Encrypted String 12

Custom Encrypted String 13

Custom Encrypted String 14

Custom Encrypted String 15

Custom Flag 11

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom Number 8

Custom Number 9

Custom Rational Number 5

Custom Rational Number 6

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

Custom Text 6

Spacer

Risk Domain

Risks Domain

View	Fields	Measure
Risks	ISO Reference	Annualized Rate Of Occurrence
	Permanent ID	Availability Exposure
	Risk Title	Confidentiality Exposure
	Threat	Integrity Exposure
	Threat Category	Impact
	Vulnerability	Likelihood
Controls	Audience	Alpha
	Control Path	Beta
	Control Title	Depth
	Control Statement	Weight
	Created By	
	Created Time	
	Definition	
	Identifier	
	Key Points	
	Last Updated Time	
	Other	
	Purpose	
	Scope	
	Status	
	Supporting Information	
	Version	
Risks Controls	Control Type	

	Reference Control Title	
Subcontrols	Assessment Procedures	Depth
	Author	Key Control
	Created	Weight
	Description	
	Help Text	
	Identifier	
	Last Updated	
	Question Name	
	Question Text	
	Status	
	Subcontrol Title	
	Subcontrols Paths	
	Version	
Risks Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom String 16

Custom String 17

Custom String 18

Custom String 19

Custom String 20

Custom String 21

Custom String 22

Custom String 23

Custom String 24

	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Risks Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	

	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Risks Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

Custom Text 6

Spacer

Tickets Domain

Tickets Domain		
View	Fields	Measures
Tickets	Disposition	Progress
	End	
	Exception Expiration Date	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority	
	Start	
	Status	
	Risk	
	Ticket Description	
	Ticket Identifier	
	Ticket Stage	
	Ticket Title	
	Ticket Type	
Tickets Workflow Owners	Status	
	Ticket Owner First Name	
	Ticket Owner Last Name	
	Ticket Owner Middle Name	
	Ticket Owner User ID	

	Workflow Owner	
Tickets Workflow Histories	Action	
	Date	
	Forced Transition	
	From Stage	
	Target User	
	To Stage	
	User	
	User First Name	
	User Last Name	
	User Middle Name	
	Workflow Comment	
Tickets Change Histories	Change	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Tickets Comments	Commented By	
	Commented By First Name	
	Commented By Last Name	
	Commented By Middle Name	
	Comments	
	Posted	
Tickets Documents	Expires On	Version
	Caption	

	Description	
	Uploaded By	
	Name	
	Size	
	Uploaded On	
Tickets Linked Objects	Title	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Type	
Tickets Linked To Entities	Created By	Status
	Created Time	
	Data Source(s)	
	Discovery Method	
	Entity Name	
	Entity Subtype	
	Entity Type	
	Entity Description	
	First Seen Date	
	Installation Date	
	Maintenance Date	
	Maintenance Reference	
	Manufacturer	
	Model	
	Organization Name	

Product Name

Status

Serial Number

Version

Warranty Expiration Date

Warranty Reference

Tickets Linked To Vulnerabilities

Acknowledged

CVSS Score

Applicable

CVSS Access Complexity

CVSS Access Vector

CVSS Authentication

CVSS Availability Impact

CVSS Confidentiality Impact

CVSS Exploitability

CVSS Integrity Impact

CVSS Remediation Level

CVSS Report Confidence

Last Modified Time

Likelihood

Modified Date

Owner

Published Date

Secondary Source

Severity

Source Type

Status

	System Information	
	Vulnerability Comment	
	Vulnerability Description	
	Vulnerability Identifier	
	Vulnerability Title	
Tickets Linked To Assessments	Archived	Compliance Score
	Create Date	Current Risk Score
	Current Status	Inherent Risk Score
	Due Date	Progress
	End Date	Residual Risk Score
	Is Not Closed	Simple Risk Score
	Name	
	Version	
Tickets Linked To Findings	Control	
	Created By	
	Created On	
	Current Stage	
	Entity	
	Finding Description	
	Finding Status	
	Finding Team	
	Finding Title	
	Impact	
	Individual	
	Last Modified By	
	Last Modified Date	

	Finding Likelihood	
	Residual Likelihood	
	Residual Impact	
	Residual Risk Score	
	Risk Score	
Tickets Linked To Responses	Action	Implementation Cost
	Comment	Override Compliance Score
	End Date	Time To Implement
	Mitigation Status	
	Owning Organization	
	Response Title	
	Start Date	
Tickets Linked To Incidents	Additional Actions	Estimated Cost
	Availability Affected	Impact
	Business Criticality	Likelihood
	Cause Analysis	
	Confidentiality Affected	
	Current Stage	
	Due Date	
	Incident Description	
	Incident Number	
	Incident Submitter	
	Incident Subtype	
	Incident Title	
	Incident Type	
	Integrity Affected	
	Last Updated	

	Preventive Measures	
	Priority	
	Severity	
	Time Detected	
	Time Ended	
	Time Received	
	Time Started	
	Time Updated	
Tickets Linked To Subcontrols	Assessment Procedures	Key Control
	Author	Question Type
	Created	Weight
	Help Text	
	Identifier	
	Last Updated	
	Measurement Rules	
	Nature	
	Parent Control	
	Question Description	
	Question Name	
	Question Text	
	Subcontrol Status	
	Subcontrol Description	
	Subcontrol Title	
	Version	
Tickets Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2

Custom Date 3

Custom Encrypted String 1

Custom Encrypted String 2

Custom Encrypted String 3

Custom Encrypted String 4

Custom Encrypted String 5

Custom Flag 1

Custom Flag 2

Custom Flag 3

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom Number 3

Custom Rational Number 1

Custom Rational Number 2

	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Tickets Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	

	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Tickets Custom Attributes 3	Custom Date 7	Custom Number 7

Custom Date 8

Custom Date 9

Custom Encrypted String 11

Custom Encrypted String 12

Custom Encrypted String 13

Custom Encrypted String 14

Custom Encrypted String 15

Custom Flag 11

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom Number 8

Custom Number 9

Custom Rational Number 5

Custom Rational Number 6

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

Custom Text 6

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Users and Roles Domain

Users and Roles Domain		
View	Fields	Measures
Users	Authentication	External Status
	Domain	
	First Name	
	Last Name	
	Middle Name	
	Status	
	User ID	
Roles	Role Description	
	Role Display Name	
	Role Name	
Role Permissions	Permission Description	
	Permission Name	
Team Details	Team Display Name	Number of Team Members
	Managed By	
	Team Name	
User Delegations	End Date	
	First Name	
	Last Name	
	Middle Name	
	Start Date	
Access Filters	Filter Description	
	Filter Name	
	Filter Type	

User Events	Category	
	Event Location	
	Event Name	
	Event Time	
	Event Title	
	Level	
	Object Type	
	Severity	
Users Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	

	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	
	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Users Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3

Custom Encrypted String 7 Custom Rational Number 4

Custom Encrypted String 8

Custom Encrypted String 9

Custom Encrypted String 10

Custom Flag 6

Custom Flag 7

Custom Flag 8

Custom Flag 9

Custom Flag 10

Custom String 26

Custom String 27

Custom String 28

Custom String 29

Custom String 30

Custom String 31

Custom String 32

Custom String 33

Custom String 34

Custom String 35

Custom String 36

Custom String 37

Custom String 38

Custom String 39

Custom String 40

Custom String 41

Custom String 42

	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Users Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

Custom String 71

Custom String 72

Custom String 73

Custom String 74

Custom String 75

Custom Text 5

Custom Text 6

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Vulnerabilities-Definition Domain

Vulnerabilities-Definition Domain		
View	Fields	Measure
Vulnerabilities	Acknowledged	Exploits
	Applicable	
	Comment	
	Last Modified Time	
	Likelihood	
	Modified Date	
	Owner	
	Published Date	
	Secondary Source	
	Severity	
	Source Type	
	Status	
	System Information	
	Vulnerability Description	
	Vulnerability Identifier	
	Vulnerability Title	
CVSS v2.0 Scores	CVSS Access Complexity	CVSS Score
	CVSS Access Vector	
	CVSS Authentication	
	CVSS Availability Impact	
	CVSS Confidentiality Impact	
	CVSS Exploitability	
	CVSS Integrity Impact	

	CVSS Remediation Level	
	CVSS Report Confidence	
Vulnerabilities Identifications	Identification Description	
	Identification Name	
	Source	
More Information	Data	
	Links	
	Type	
	Name	
Exploits	CVE Reference	
	Description	
	Name	
	Platform	
	Port	
	Date Published	
	Reliability	
	Type	
Vulerabilities References	Reference Name	
Vulnerabilities Risks	Reference Number	
	Risk Name	
Tickets	Disposition	Progress
	End	
	Exception Expiration Date	
	Owner	
	Owner First Name	

	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority	
	Start	
	Status	
	Ticket Description	
	Ticket Identifier	
	Ticket Stage	
	Ticket Title	
	Ticket Type	
Vulnerabilities CPEs	CPE Description	
	CPE URI	
	Edition	
	Full Name	
	Language	
	Modified Date	
	Product	
	Type	
	Update	
	Vendor	
	Version	
Vulnerabilities Patches	Comments	
	Full Description	
	Last Modified Time	

	Managed By	
	Patch Name	
	Publisher	
	Release Date	
	Severity	
	Short Description	
	Type	
	URL	
	Version	
	Vulnerabilities List	
Vulnerabilities Change Histories	Changed Attribute	
	New Value	
	Old Value	
	Operation	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Vulnerabilities Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational

		Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	
	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	

	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Vulnerabilities Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	

	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	

Vulnerabilities Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	
	Custom Encrypted String 14	
	Custom Encrypted String 15	
	Custom Flag 11	
	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom String 51	
	Custom String 52	
	Custom String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	

	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Spacer		
Vulnerability Compensating Controls	Name	
	Protection Risk Percentage	
	Detection Risk Percentage	
	Total Risk Reduction Percentage	
	Last Updated	
Risk Score Reduction Details	Total Deduction Percentage Reduction	
	Total Protection Percentage Reduction	
	Total Percentage Reduction	
	Total Risk Reduction for the Vulnerability (Compensating Controls Risk	

	Reduction Value)	
	Risk Score Remained (Risk not Reduced by Compensating Controls Value)	

Vulnerabilities-Inferred Domain

Vulnerabilities-Inferred Domain		
View	Fields	Measure
Vulnerabilities Inferred	Acknowledged	
	Applicable	
	Comment	
	Early Warning	
	Last Modified Time	
	Latest Patch Date	
	Likelihood	
	Modified Date	
	Owner	
	Published Date	
	Record Type	
	Secondary Source	
	Severity	
	Status	
	System Info	
	Vulnerability Description	
	Vulnerability Identifier	
	Vulnerability Title	
CVSS v2.0 Scores	CVSS Access Complexity	CVSS Score
	CVSS Access Vector	
	CVSS Authentication	
	CVSS Availability Impact	
	CVSS Confidentiality Impact	

	CVSS Exploitability	
	CVSS Integrity Impact	
	CVSS Remediation Level	
	CVSS Report Confidence	
Vulnerabilities Identifications	Identification Description	
	Identification Name	
	Source	
Exploits	CVE Reference	
	Description	
	Name	
	Platform	
	Port	
	Date Published	
	Reliability	
	Type	
More Information	Data	
	Links	
	Name	
	Type	
Vulerabilities References	Reference Name	
Vulnerabilities Risks	Reference Number	
	Risk Name	
Tickets	Disposition	Progress
	End	
	Exception Expiration Date	
	Owner	

	Owner First Name
	Owner Last Name
	Owner Middle Name
	Planned End
	Planned Start
	Priority
	Status
	Start
	Ticket Description
	Ticket Identifier
	Ticket Stage
	Ticket Type
	Ticket Title
Vulnerabilities CPEs	CPE Description
	CPE URI
	Edition
	Full Name
	Language
	Modified Date
	Product
	Type
	Update
	Vendor
	Version
Vulnerabilities Patches	Comments
	Full Description
	Last Modified Time

	Patch Name	
	Publisher	
	Managed By	
	Release Date	
	Severity	
	Short Description	
	Type	
	URL	
	Version	
	Vulnerabilities List	
Vulnerabilities Change Histories	Changed Attribute	
	New Value	
	Old Value	
	Operation	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Vulnerabilities Custom Attributes 1	Custom Date 1	Custom Number 1
	Custom Date 2	Custom Number 2
	Custom Date 3	Custom Number 3
	Custom Encrypted String 1	Custom Rational Number 1
	Custom Encrypted String 2	Custom Rational Number 2
	Custom Encrypted String 3	
	Custom Encrypted String 4	

Custom Encrypted String 5

Custom Flag 1

Custom Flag 2

Custom Flag 3

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom String 16

Custom String 17

Custom String 18

Custom String 19

Custom String 20

	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Vulnerabilities Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	

	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Vulnerabilities Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6

Custom Encrypted String 13

Custom Encrypted String 14

Custom Encrypted String 15

Custom Flag 11

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom String 67

Custom String 68

	Custom String 69	
	Custom String 70	
	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
Entities	Entity Subtype	Accountability Impact
	Entity Type	Annual Maintenance
	Created By	Availability Impact
	Created Time	Availability Impact Cost Hours
	Description	Average Remediation Time Days
	Discovery Method	Business Value
	First Seen Date	Business Value Hours
	Installation Date	Confidentiality Impact Cost Per Database
	Maintenance Date	Confidentiality impact Cost Per Record
	Maintenance Reference	Confidentiality Impact
	Manufacturer	Criticality
	Model	Data Integrity Cost
	Name	Hardware Replacement Cost
	Organization Name	Integrity Impact
	Product Name	Number Of Users
	Security Classification	Operational Budget
	Serial Number	Single User Availability Cost

	Version	Software Replacement Cost
	Warranty Expiration Date	
	Data Source(s)	
	Warranty Reference	Status
CVSS v3.0 Scores	Attack Vector	Overall Score
	Attack Complexity	
	Privilage Required	
	User Interaction	
	Scope	
	Cofidentiality	
	Integrity	
	Availability	
	Modified Attack Vector	
	Modified Attack Complexity	
	Modifies Privilage Required	
	Modified User Interaction	
	Modified Scope	
	Confidentiality Requirement	
	Integrity Requirement	
	Availability Requirement	
	Modified Confidentiality	
	Modified Integrity	
	Modified Avaiability	
	Exploit Code Maturity	
	Remediation Level	
	Report Confidence	

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Vulnerabilities-Inheritances Domain

Vulnerabilities-Instances Domain

View	Fields	Measure
Vulnerabilities	Abstract	Source Flags
	Analysis	Vulnerability Flags
	Assessment Check Name	
	Assessment Check System	
	CVSS Target Distribution	
	CVSS Vector	
	CVSS Version	
	Default Severity	
	Deprecated Flag	
	Duplicated Flag	
	Early Warning Flag	
	Identifier	
	Last Modified Time	
	Likelihood	
	Modified Date	
	Published Date	
	Record Type	
	Recovery	
	Source	
	Vulnerability Identifier	
	Vulnerability Description	
	Vulnerability Title	
CVSS v2.0 Scores	CVSS Access Complexity	CVSS Score

	CVSS Access Vector
	CVSS Authentication
	CVSS Availability Impact
	CVSS Confidentiality Impact
	CVSS Exploitability
	CVSS Integrity Impact
	CVSS Remediation Level
	CVSS Report Confidence
Exploits	CVE Reference
	Description
	Name
	Platform
	Port
	Date Published
	Reliability
	Type
Vulnerability Identification	Identification Description
	Identification Name
	Source
More Information	Data
	Links
	Name
	Type
Vulnerabilities References	Name
Vulnerabilities Risks	Reference Number
	Risk Name

Tickets	Disposition	Progress
	End	
	Exception Expiration Date	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority	
	Start	
	Status	
	Ticket Description	
	Ticket Identifier	
	Ticket Stage	
	Ticket Title	
	Ticket Type	
CPEs	CPE Name	
	CPE URI	
	Description	
	Edition	
	Language	
	Modified Date	
	Product	
	Type	
	Update	
	Vendor	

	Version	
Patches	Comments	
	Full Description	
	Last Modified Time	
	Patch Name	
	Patch Type	
	Managed By	
	Publisher	
	Release Date	
	Severity	
	Short Description	
	Source ID	
	URL	
	Version	
	Vulnerability List	
Vulnerabilities Change Histories	Changed Attribute	
	New Value	
	Old Value	
	Operation	
	When	
	Who	
	Who First Name	
	Who Last Name	
	Who Middle Name	
Applications	Application Status	Antivirusupdate ID
	Application Type	Application Data Source

	System Component Flag	
	Update Status	
	Update Time	
Computersystems To Ports	Association Comment	Source
Computersystems To Services	Account Name	Source
	Association Comment	
	Operational State	
	Operational Status	
	Path Name	
	Service Type	
	Start Mode	
Entities	Data Source(s)	Benchmark Flags
	CN	Business Cost
	Container Level 1	CVSS Score
	Container Level 2	Entity Number
	Container Level 3	Entity Status
	Container Level 4	Impact
	Container Level 5	Initial Risk Score
	Container Level 6	Likelihood
	Created By	Replacement Cost
	Created Time	Risk
	CVSS Collateral DMG Potential	Status
	DC	Time To Fix
	Deleted Flag	
	Entity Description	
	Entity Name	

	Entity Subtype
	Entity Tag
	Entity Type
	Discovery Method
	Distinguished Name
	Division
	First Seen Date
	Hidden Flag
	Installation Date
	Internal Flag
	Last Modification Time
	Last Seen Date
	Maintenance Date
	Maintenance Reference
	Manufacturer
	Model
	Organization Name
	Product Name
	Product Version
	Serial Number
	Subdivision
	Tangible Flag
	Update Finding
	Version
	Warranty Expiration Date
	Warranty Reference
Entities Classification	Accountability

	Availability	
	Confidentiality	
	Business Criticality	
	Integrity	
	Classification Label	
Entities To Vulnerabilities	Association Comment	AV Flags
	Created By	Calculated Score
	Created Time	Likelihood
	Detail	Risk Score
	Discovery Method	Scores
	External Catalog ID	Source
	File Name	
	First Seen Time	
	Fixed Time	
	Issue ID	
	Last Modified Time	
	Last Scan Time	
	Last Seen Time	
	Line Number	
	Location	
	Noise Flag	
	Patch Status	
	Processed	
	Resolved By	
	Resolved Comment	
	Resolved Status	

	Resolved Time	
	Risk Flag	
	Secondary Source	
	Severity	
	Test URL	
	Total Exposure	
Entities Hierarchy	Hierarchy Description	
	Level 2	
	Level 3	
	Level 4	
	Level 5	
	Level 6	
	Level 7	
	Level 8	
	Level 9	
	Level 10	
	Level 11	
	Level 12	
	Level 13	
	Level 14	
	Level 15	
	Path	
	Root	
Entity Ownerships	Owner	
	Ownership Type	
Network Interfaces	Alias Addresses	Data Source

	Caption	DHCP Server
	Description	Enabled Default
	DHCP Enabled	Enabled State
	DHCP Lease Expires	Gateway
	DHCP Lease Obtained	IPv4 Address
	DNS Servers	Max Data Size
	Element Name	Network Address
	Group Addresses	Prefix Length
	Install Date	Primary WINS Server
	IP Address	Protocol LF Type
	LAN ID	Requested State
	MAC Address	Secondary WINS Server
	Friendly name	Subnet Mask
	Name Format	
	Network Zone	
	Operational Status	
	System Name	
	Time Of Last State Change	
	WINS Server	
	Wireless Status	
Operating Systems	Description	Current Time Zone
	Distributed	Enabled Default
	Element Name	Enabled State
	Install Date	Max Number Of Processes
	Last Boot Up Time	Max Process Memory Size
	Local Date Time	Max Processes Per User
	Operating System Name	Number Of Licensed Users

	Operational Status	OS Type
	OS Caption	Requested State
	Serial Number	Size Stored In Paging Files
	Time Of Last State Change	Total Swap Space Size
	Version	Total Virtual Memory Size
	Version Name	Total Visible Memory Size
Ports	Port Description	
	Port Name	
	Port Number	
	Protocol	
Services	Service Description	
	Name	
Source info	Caption	License ID
	Connector Name	
	Connector Type	
	Icon	
Vulnerabilities To Endpoints	Association Comment	Source
Vulnerabilities Custom Attributes 1	Custom Date 1	Custom Number 2
	Custom Date 2	Custom Number 3
	Custom Date 3	Custom Rational Number 1
	Custom Encrypted String 1	Custom Rational Number 2
	Custom Encrypted String 2	
	Custom Encrypted String 3	
	Custom Encrypted String 4	
	Custom Encrypted String 5	

Custom Flag 1

Custom Flag 2

Custom Flag 3

Custom Flag 4

Custom Flag 5

Custom String 1

Custom String 2

Custom String 3

Custom String 4

Custom String 5

Custom String 6

Custom String 7

Custom String 8

Custom String 9

Custom String 10

Custom String 11

Custom String 12

Custom String 13

Custom String 14

Custom String 15

Custom String 16

Custom String 17

Custom String 18

Custom String 19

Custom String 20

Custom String 21

Custom String 22

	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Vulnerabilities Custom Attributes 2	Custom Date 4	Custom Number 4
	Custom Date 5	Custom Number 5
	Custom Date 6	Custom Number 6
	Custom Encrypted String 6	Custom Rational Number 3
	Custom Encrypted String 7	Custom Rational Number 4
	Custom Encrypted String 8	
	Custom Encrypted String 9	
	Custom Encrypted String 10	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Flag 10	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	
	Custom String 31	
	Custom String 32	

	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 3	
	Custom Text 4	
Vulnerabilities Custom Attributes 3	Custom Date 7	Custom Number 7
	Custom Date 8	Custom Number 8
	Custom Date 9	Custom Number 9
	Custom Encrypted String 11	Custom Rational Number 5
	Custom Encrypted String 12	Custom Rational Number 6
	Custom Encrypted String 13	

Custom Encrypted String 14

Custom Encrypted String 15

Custom Flag 11

Custom Flag 12

Custom Flag 13

Custom Flag 14

Custom Flag 15

Custom String 51

Custom String 52

Custom String 53

Custom String 54

Custom String 55

Custom String 56

Custom String 57

Custom String 58

Custom String 59

Custom String 60

Custom String 61

Custom String 62

Custom String 63

Custom String 64

Custom String 65

Custom String 66

Custom String 67

Custom String 68

Custom String 69

Custom String 70

	Custom String 71	
	Custom String 72	
	Custom String 73	
	Custom String 74	
	Custom String 75	
	Custom Text 5	
	Custom Text 6	
CVSS v3.0 Scores	Attack Vector	Overall Score
	Attack Complexity	
	Privilege Required	
	User Interaction	
	Scope	
	Confidentiality	
	Integrity	
	Availability	
	Modified Attack Vector	
	Modified Attack Complexity	
	Modifies Privilege Required	
	Modified User Interaction	
	Modified Cofidentiality	
	Modified Integrity	
	Modified Availability	
	Exploit Code Maturity	
	Remediation Level	
	Report Confidence	
Vulnerability Enhanced Score	Access Complexity	Days Open

	Access Vector	Denominator
	Authentication	Exploit Factor
	Availability	Numerator
	Confidentiality	Enhanced Score
	Identifier	
	Integrity	
Vulnerability Risk Score	Entity Criticality	Number of Vulnerability Instances
		Entity Criticality Factor
		Vulnerability Risk Factor
		Vulnerability Risk Score

Threat Domain

Threat Domain		
View	Fields	Measures
Threat Object	Type	Progress
	Source	
	Title	
	Description	
	Owner	
	Severity	
	Likelihood	
	Risk	
	Status	
	Comment	
Threats Linked To Entities	Entity Description	
	Entity Manufacturer	
	Entity Tag	
	Entity Product Name	
	Entity Serial Number	
	Entity Status	
	Subtype	
	Discovery Method	
	Entities Classification	Classification Levels
	Entities Ownerships	Owner
		Ownership Type
	Entities Hierarchy	Hierarchy Description
		Level 2

		Level 3
		Level 4
		Level 5
		Level 6
		Level 7
		Level 8
		Level 9
		Level 10
		Level 11
		Level 12
		Level 13
		Level 14
		Level 15
		Path
		Root
	Network Interface	IPV6 Address
		MAC Address
		IP Address
	Operating System	Description
		Install Date
		Operating System Name
		Serial Number
		OS Type
	Port	Port Description
		Port Name

		Port Number
		Protocol
	Services	Services Description
		Service Name
	Source Info	Caption
		Connector Name
		Connector Type
		Icon
Threats Linked to Exploits	CVEs	
	Description	
	Name	
	Platform	
	Date Published	
	Identifier	
	Source	
	Type	
Threats Linked To Incidents	Additional Actions	
	Avaiability Affected	
	Bussiness Criticality	
	Cause Analysis	
	Confidentiality Affected	
	Current Stage	
	Due Date	
	Incident Description	
	Incident Number	
	Incident Submitter	

	Incident Subtype	
	Incident Title	
	Incident Type	
	Incident Affected	
	Last Update	
	Preventive Measure	
	Priority Severity	
	Time Detected	
	Time Ended	
	Time Started	
	Time Updated	
Threats Linked To Tickets	Disposition	
	End	
	Exception Expire Date	
	Owner	
	Owner First Name	
	Owner Last Name	
	Owner Middle Name	
	Planned End	
	Planned Start	
	Priority Start	
	Status	
	Ticket Description	
	Ticket Identifier	
	Ticket Stage	

	Ticket Title	
	Ticket Type	
Threats Linked To Vulnerabilities	Vulnerability Comment	
	CVSS Access Complexity	
	CVSS Access Vector	
	CVSS Authentication	
	CVSS Availability Impact	
	CVSS Confidentiality Impact	
	CVSS Exploitability	
	CVSS Integrity Impact	
	CVSS Remediation Level	
	CVSS Report Confidence	
	Identifier	
	Last Modified Time	
	Likelihood	
	Modified Date	
	Owner	
	Published Date	
	Secondary Score	
	Severity	
	Source Type	
	Status	
	System Information	
	Vulnerability Title	
	Acknowledged	

	Applicable	
Technologies	Description	
	Edition	
	Language	
	Type	
	Product	
	Title	
	Update	
	URI	
	Vendor	
	Version	
Related Threats	Last Updated Time	
	Type	
	Owner	
	Risk	
	Source	
	Identifier	
	Status	
	Title	
Related Links	Description	
	Type	
	URL	
	Source	
Threat Custom Attribute	Custom Date 1	
	Custom Date 2	
	Custom Date 3	

	Custom Flag 1	
	Custom Flag 2	
	Custom Flag 3	
	Custom Flag 4	
	Custom Flag 5	
	Custom Long String 1	
	Custom Long String 2	
	Custom Long String 3	
	Custom String 1	
	Custom String 2	
	Custom String 3	
	Custom String 4	
	Custom String 5	
	Custom String 6	
	Custom String 7	
	Custom String 8	
	Custom String 9	
	Custom String 10	
	Custom String 11	
	Custom String 12	
	Custom String 13	
	Custom String 14	
	Custom String 15	
	Custom String 16	
	Custom String 17	

	Custom String 18	
	Custom String 19	
	Custom String 20	
	Custom String 21	
	Custom String 22	
	Custom String 23	
	Custom String 24	
	Custom String 25	
	Custom Text 1	
	Custom Text 2	
Threat Custom Attribute 2	Custom Date 4	
	Custom Date 5	
	Custom Date 6	
	Custom Flag 5	
	Custom Flag 6	
	Custom Flag 7	
	Custom Flag 8	
	Custom Flag 9	
	Custom Long String 4	
	Custom Long String 5	
	Custom Long String 6	
	Custom String 26	
	Custom String 27	
	Custom String 28	
	Custom String 29	
	Custom String 30	

	Custom String 31	
	Custom String 32	
	Custom String 33	
	Custom String 34	
	Custom String 35	
	Custom String 36	
	Custom String 37	
	Custom String 38	
	Custom String 39	
	Custom String 40	
	Custom String 41	
	Custom String 42	
	Custom String 43	
	Custom String 44	
	Custom String 45	
	Custom String 46	
	Custom String 47	
	Custom String 48	
	Custom String 49	
	Custom String 50	
	Custom Text 4	
	Custom Text 5	
Threat Custom Attribute 3	Custom Date 7	
	Custom Date 8	
	Custom Date 9	
	Custom Flag 11	

	Custom Flag 12	
	Custom Flag 13	
	Custom Flag 14	
	Custom Flag 15	
	Custom Long String 51	
	Custom Long String 52	
	Custom Long String 53	
	Custom String 54	
	Custom String 55	
	Custom String 56	
	Custom String 57	
	Custom String 58	
	Custom String 59	
	Custom String 60	
	Custom String 61	
	Custom String 62	
	Custom String 63	
	Custom String 64	
	Custom String 65	
	Custom String 66	
	Custom String 67	
	Custom String 68	
	Custom String 69	
	Custom String 70	
	Custom Text 5	

	Custom Text 6	