

**Oracle® Retail Brand Compliance Management
Cloud Service**

Reports User Guide

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Oracle Retail Brand Compliance Management Cloud Service Reports User Guide,
Release 18.0

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Preface

This document describes the Oracle Retail Brand Compliance Management (ORBCM) Cloud Service Reports user interface. It provides an overview of the key features provided by the reporting facility.

Audience

This document is intended for the users of the Oracle Retail Brand Compliance Management Cloud Service Reports module.

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Related Documents

For more information, see the following documents in the Oracle Retail Brand Compliance Management Cloud Service Release 18.0 documentation set:

- *Oracle Retail Brand Compliance Management Cloud Service Administration Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Implementation Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Release Notes*
- *Oracle Retail Brand Compliance Management Cloud Service User Guide*

For information on the Oracle Retail Brand Compliance Management Cloud Service modules, see the following documents:

- *Oracle Retail Brand Compliance Management Cloud Service Product User Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Project User Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Supplier User Guide*

Report Layouts

The *Oracle Retail Brand Compliance Management Cloud Service Report Layouts* document provides details on the layout of the reports that are supplied as part of the suite of core reports. The document is available through My Oracle Support:

Oracle Retail Brand Compliance Management Cloud Service Report Layouts (Doc ID: 2400174.1)

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

The Brand Compliance Reports module provides a means of reporting on the data within Brand Compliance. Using *Oracle BI Publisher*, it replaces the previous *Jaspersoft* reporting solution. A suite of core reports are provided, along with the ability for clients to build their own custom reports.

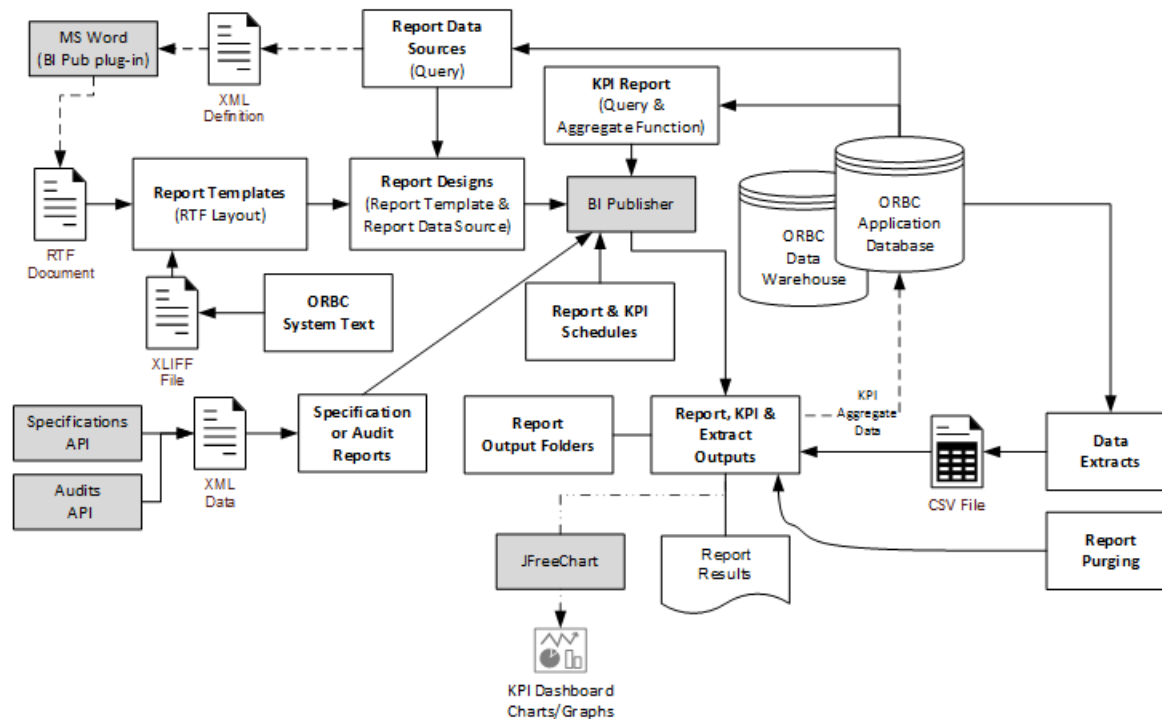
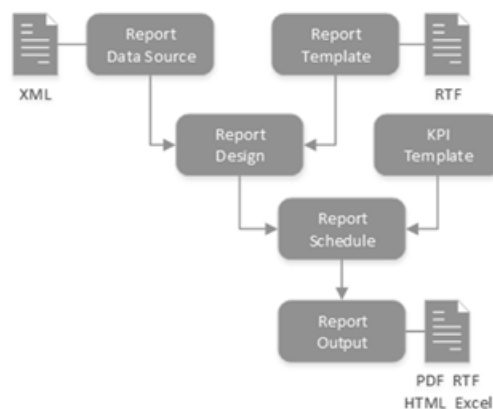
This guide describes the concepts behind the reporting solution and provides chapters explaining the user steps for the following:

- [Chapter 3, "Report Administration"](#)
- [Chapter 4, "Creating Reports"](#)
- [Chapter 5, "Scheduling Reports"](#)
- [Chapter 6, "Viewing Reports"](#)
- [Chapter 7, "KPI Dashboards"](#)
- [Chapter 8, "Data Extracts"](#)

Supporting information includes details of the supplied core reports, and guidelines on designing and building report templates.

The framework of the Brand Compliance reporting solution is based around integration with the BI Publisher API. This allows for the administration, design, and scheduling aspects to all be contained within Brand Compliance, along with the generated report outputs.

The following diagrams show the components of the framework and their relationships. They are followed by a description of the key aspects.

Figure 1–1 Reports Framework**Figure 1–2 Basic Elements of the Reports Framework**

Report Data

A set of data sources is provided which make data from the Brand Compliance modules available for reporting. The data sources are a predefined set of queries that generate the data in XML format for processing by *BI Publisher*. The data sources are optimized to create discrete data sets relevant to the area being reported on, along with appropriate data from related records. For reports that are likely to process high volumes of data, such as ingredient searches, the data source is located in a separate Data Warehouse database which is regularly synchronized with the application database.

The data sets can be further refined by applying filters to apply additional levels of selection criteria. These may be fixed values, or values for the user to supply when the report is scheduled to run.

The Report Data Source records are located in the Brand Compliance Reporting Admin area.

Report Templates and Report Designs

Reports are built from Rich Text Format (RTF) templates which can be authored using a word processor (Microsoft Word has a plug-in available to aid the design process). The RTF templates are combined with the XML data provided by the data source to form report designs.

Like data sources, the report designs can have filters to be applied to further refine the data set, either as fixed values, or values to be supplied at runtime.

The Report Template and Report Design records are located in the Brand Compliance Admin area.

For details of the reports supplied as part of the suite of core reports, see "[Appendix: Report Layouts](#)." The supplied templates can be adapted to form custom variants, or new custom reports can be created. For guidance on the creation of RTF report templates, see "[Appendix: Designing RTF Templates](#)."

Report Scheduling

The report designs are available to reporting users in the Report Schedules page. To schedule the report, the user chooses when it is to run, whether a single or recurring run, the type and location of output, and the recipients. Recipients may be an individual or all users with a particular job role.

Additional filters can be applied when scheduling the report to run.

Reports Output

When a report is run, the output will typically be a PDF or Excel file (other formats are available), which is located in the designated folder of the Report Outputs area. An email notification is delivered to the recipients containing a link to the report. Report outputs are presented as tabular reports or forms containing a combination of single values and tables. The outputs may also contain charts.

A reporting user will only have visibility of the reports that they have created or they are a recipient of. If the portal is operating the Enhanced Access Control (EAC) permissions feature, users will only be able to report on data that they can access within the application, according to their EAC area. For further details on the reporting permissions rules, see "[Appendix: Permissions](#)."

KPI Reports

Key Performance Indicator (KPI) reports are an alternative means of reporting on the Brand Compliance data. Intended for reporting on a single measure at a point in time, the outputs can be presented as dashboards on the Home page, either in tabular or chart format.

The KPI reports are configured in a similar way to reports, using data sources and KPI Report records in the Admin area. KPIs are scheduled in the same way as reports, and can use filters to refine the data set.

When a KPI report is run, it calculates or accumulates the measure value for that point in time and stores it in the KPI Results folder in the Report Outputs area, from where the data is used in the KPI dashboards or reports.

Data Extracts

An additional reporting facility is provided in the form of data extracts, where the full contents of certain record types can be extracted to Comma-Separated Value (CSV) files that can be viewed as a spreadsheet. The data extract facility is available for the Supplier, Site, Product Record, and Product Specification record types.

The data extracts are only available to the reporting administrator user. They are created by filtering the contents of a list view to the desired set of records to be extracted. The results are stored in the Data Extracts folder in the Report Outputs area.

Language Translations

The report titles and column headings of the supplied core reports are coded to use system text in the same way as the application caters for alternative languages and customization. A separate Reporting set of system text values is supplied, containing the default values and language translations. These may be customized and extended by the system administrator.

When designing a report, the system text unique key codes are used in place of fixed text. When the report is run, the text for the language of the user who scheduled the report is located, falling back to the portal's base language if no translation is present. Similarly, if the report contains data that has alternative language translation within the application, such as values that are derived from a glossary, the value is translated to the user's language if a translation is present.

Report Purging

A means of automatically purging report outputs after a set period of time is provided. A system parameter is used to set the number of days a report will be retained after its creation. An email is set to the user containing a notification prior to the report being deleted. The default retention period is 90 days.

Getting Started

This chapter describes how to access the reports.

Accessing Reports

The Reports option in the navigation bar offers users who have reporting access rights the following options:

- Report Schedules - where reports are scheduled to be run.
- Report Outputs - where the outputs of reports are located on completion.
- Legacy Reports - if the portal is also operating the *Jaspersoft* reporting solution during a transition period.

For administrators, the report design facilities are accessed from the Reporting section of the Admin area.

The Reports module is only available to retailer/portal owner users; supplier users have no access. There are three levels of access, provided by these authority profiles:

- Advanced Reporting Administrator - the ability to build new reports and various administration tasks.
- Advanced Reporting User - the ability to schedule reports and view their outputs.
- Advanced Reporting Reader - the ability to view report outputs, but not to schedule reports.

Report Administration

This chapter covers the report administration features of the Reports module. The following topics are covered:

- [Data Sources](#)
- [Report Templates](#)
- [Report Designs](#)
- [KPI Report Templates](#)
- [Other Report Administration Options](#)

Data Sources

Data Sources provide access to the Brand Compliance data for reporting purposes. The reportable Brand Compliance data is made available through a set of predefined SQL queries and APIs which give access to the majority of the application's data. Related data is grouped and joined in a way that is optimized for efficient reporting. A data source may be used in any number of report templates.

Note: The supplied core data sources cannot be edited, deactivated, or deleted.

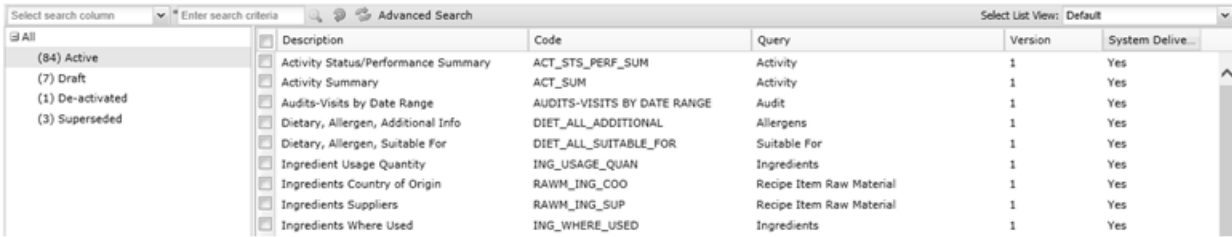
While the contents of the supplied data source queries (that is, the records and the fields therein) are not configurable, the Data Source records that contain them can be copied and adapted to form custom variants by creating subsets of the reportable fields and applying filters to the data.

Filters are used to refine the data source contents to a data set appropriate for a particular type of report. Costs and weightings are applied to the data source to help limit reports to a manageable size. A data warehouse is used to source the data for high volume reports, thus reducing the impact on the Brand Compliance application.

To access the Data Sources, select the Manage Reporting Data Sources option in the Reporting Admin area. This is only accessible to users with the Advanced Reporting Administrator authority profile.

The list of data sources is displayed, grouped by status. A single *Default* list view is provided. For each data source, the description, code, query name, and version are shown. A column indicates if the data source is one of the system-delivered core sets.

Figure 3–1 Data Sources Page



Select search column	Enter search criteria	Advanced Search	Select List View: Default
(84) Active			
(7) Draft			
(1) De-activated			
(3) Superseded			
☐ Description	ACT_STS_PERF_SUM	Activity	1 Yes
☐ Activity Status/Performance Summary	ACT_SUM	Activity	1 Yes
☐ Activity Summary	AUDITS-VISITS BY DATE RANGE	Audit	1 Yes
☐ Audits-Visits by Date Range	DIET_ALL_ADDITIONAL	Allergens	1 Yes
☐ Dietary, Allergen, Additional Info	DIET_ALL_SUITABLE_FOR	Suitable For	1 Yes
☐ Dietary, Allergen, Suitable For	ING_USAGE_QUAN	Ingredients	1 Yes
☐ Ingredient Usage Quantity	RAWM_ING_COO	Recipe Item Raw Material	1 Yes
☐ Ingredients Country of Origin	RAWM_ING_SUP	Recipe Item Raw Material	1 Yes
☐ Ingredients Suppliers	ING_WHERE_USED	Ingredients	1 Yes
☐ Ingredients Where Used			

To see the details for a specific data source, double-click the row. A tab opens with the details. You can also select the View or Edit actions.

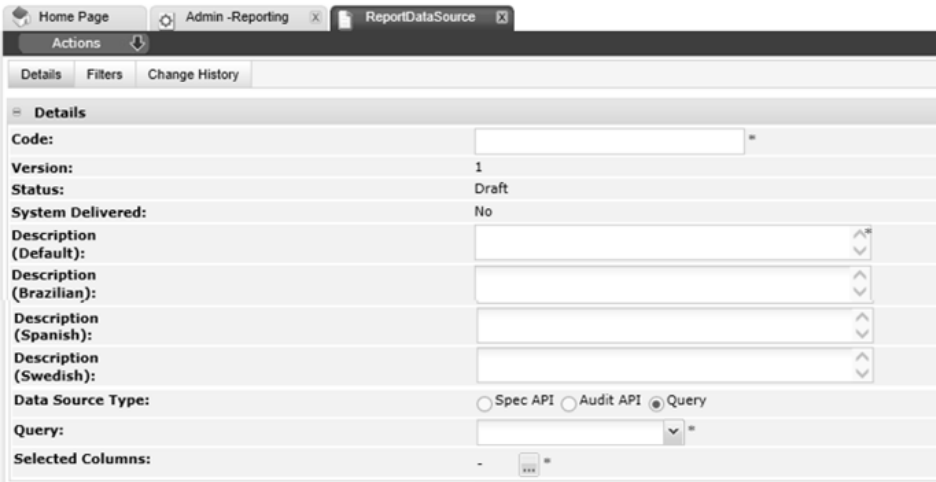
Note: The Data Source records can be imported and exported using the Import and Export list view actions, however rows in the Filters table that relate to glossary selections or enumerations are excluded.

If using the Import action to create a new data source, the system-delivered flag must be set to No, else the imported data source will not be editable.

Creating a Data Source

- To create a new data source:
1. Select the New action. The New Report Data Source page appears.

Figure 3–2 New Report Data Source Page



Home Page Admin -Reporting ReportDataSource

Actions

Details Filters Change History

Details

Code: [text box]

Version: 1

Status: Draft

System Delivered: No

Description (Default): [text box]

Description (Brazilian): [text box]

Description (Spanish): [text box]

Description (Swedish): [text box]

Data Source Type: ☐ Spec API ☐ Audit API ☒ Query

Query: [text box]

Selected Columns: [text box]

2. Enter the details.

Table 3–1 New Report Data Source Page

Details	Description
Code	Enter a unique uppercase code for this data source. Mandatory field.
Version	The version will default to 1. Read-only field.
Status	This will default to Draft. Read-only field.
System Delivered	This will default to No. Read-only field.

Table 3–1 (Cont.) New Report Data Source Page

Details	Description
Description	Enter the description for this data source in the supported languages. The description for the default language is mandatory.
Data Source Type	Select the type of data source. The default option is Query, which is the usual option for a tabular report. The Spec API and Audit API options are used for form reports that present a page per Product Specification or Audit/Visit.
Query	Select the query that corresponds to the data to be provided by the data source. Mandatory field. This field is hidden if one of the APIs has been selected as the data source type. The options in the list are fixed, based on the set of predefined queries provided by Oracle.
Selected Columns	Once the query has been selected, click the icon to select which of its columns are to be provided by the data source. This field is hidden if one of the APIs has been selected as the data source type, otherwise it is a mandatory field.

3. Optionally add any filters to be applied to the data source. See ["Filters."](#)
4. Save the changes and exit.

Editing a Data Source

To edit a data source, select the data source on the Data Sources page and select the Edit action. The data source record opens in edit mode in a new tab.

Data Sources are maintained as a versioned glossary. When the data source is created, it is assigned version 1 and the status will be Draft. At this status, all fields except the code, version, status, and system-delivered flag may be edited.

The system-delivered flag identifies if the record is part of the suite of delivered core reports, in which case the flag will be Yes. The system-delivered data sources may be copied using the Copy action to form new custom variants, in which case the flag will be No.

Figure 3–3 Data Source Details

The screenshot shows a web application interface for editing a data source. At the top, there are tabs for 'Home Page', 'Admin -Reporting', and 'Dietary, Allergen...'. Below the tabs is a dark bar with 'Actions' and a dropdown arrow. Underneath is a light gray bar with 'Details', 'Filters', and 'Change History' tabs. The 'Details' tab is active, showing a form with the following fields:

- Code:** DIET_ALL_ADDITIONAL
- Version:** 1
- Status:** Active
- System Delivered:** Yes
- Description (Default):** Dietary, Allergen, Additional Info
- Description (Brazilian):** -
- Data Source Type:** Query
- Query:** Allergens
- Selected Columns:** A list of columns including Allergen Declared, Allergen Question, Brand, Business Categories (Path), Country Where Sold, Event, and Lead Business Category (Path).

Activating the Data Source

Use the Activate action to activate the data source. The status is changed to Active, making the data source available for use in report designs. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Deactivating the Data Source

Use the Deactivate action to deactivate the data source. The status is changed to De-activated, making it unavailable for use in new report designs. Any existing active report designs that use the data source will continue to do so. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Note: Users with the Oracle Authorized Administrator authority profile can edit the record at any status, however the code, version, status, and system delivered flag remain locked.

Deleting the Data Source

Use the Delete action to delete the data source. The data source may only be deleted if it is not active and has not been used by any report designs.

Downloading Data for RTF Template Design

The Download Data for RTF Template Design action creates a file containing the data elements of the selected query. Use this option to download an XML file that can be used in the design of an RTF report template. For information on building RTF templates, see "[Appendix: Designing RTF Templates](#)."

Filters

Filters can be applied to Data Sources, Report Designs, and Report Schedules to refine the data included in the report when it is run. If no filters are applied to a report, the data in the generated report will be all the records that the data source contains.

Data Source Filters

If a data source has a filter, it will be applied to all report designs and subsequent report schedules that use the data source. This type of filter is of use to always restrict data to a specific set, for example to provide a data source for reporting on Food products, where the filter only includes Food type products.

Report Design Filters

If a report design has a filter, it will be applied to all report schedules that use the design. This type of filter is of use to refine the data to a specific subset, for example to provide a design for reporting on active Food products, where the data source filters for Food products, and the report design filter then only includes those at an active status.

Report Schedule Filters

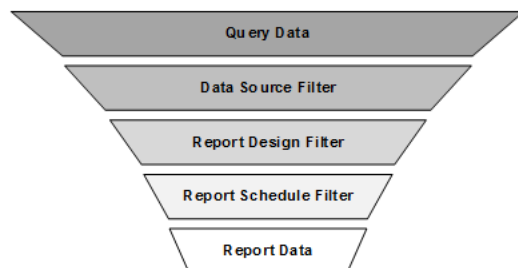
If a report schedule has a filter, it will be applied in addition to any data source or report design filters to further refine the data to a specific subset, for example to run a report for reporting on active Food products of a given category, where the data source

filters for Food products, the report design filters for those at an active status, and the report schedule filters those for the required category (such as vegetables).

Applying Filters

Filters can be applied as fixed values (such as always selecting Food products), or as runtime values, where the user selects the value when scheduling the report to run (such as choosing which categories of product to include in that particular run of the report.)

The different levels of filtering allows for flexible, efficient, and intuitive report selection criteria to be designed. The filters are applied cumulatively: any Data Source filters AND any Report Design filters AND any Report Schedule filters.



Filters are applied in the Filters page of the Report Data Source, Report Design, and Report Schedule records. Report designs also show any filters that have been applied at the data source level; report schedules show any filters that have been applied at the data source or report design level.

Each row in the table applies a single condition. For example, if the filter is to include products with status active or draft, the table will contain two rows:

(Status Equals Active) OR (Status Equals Draft)

To apply the same search for three named suppliers, the table would contain five rows:

((Supplier Equals ABC Supplies) OR (Supplier Equals DEF Supplies) OR (Supplier Equals XYZ Supplies)) AND ((Spec Equals Active) OR (Status Equals Draft))

To add a filter to a data source:

1. Open the data source in edit mode and navigate to the Filter page.

Figure 3–4 Filters Table

Column	Operator	Type	Runtime Value	Ignore Case?	Value	Unit		
Country Where Sold	Equals	Fixed	☐	☒	Brazil		☐	and ☐ or
Site Name	Contains	Fixed	☐	☒	ABC		☐	and ☐ or

2. To add a row to the filters table, click **Add**.
3. Enter the details.

Table 3–2 Filters Table

Details	Description
() parenthesis	The parenthesis columns are used to construct simple or complex statements, with and/or logic. Opening and closing pairs must match.
Column	Select from the available columns, based on the data source's query.
Operator	Select from the following options, based on the column type: ■ If the column type is Boolean, the options are: Equals; Is Not Equal To. ■ If the column type is Date, the options are: Blank; Not Blank; Equals; Is Not Equal To; Less Than; Greater Than; Less Than or Equal To; Greater Than or Equal To. ■ If the column type is Entity, the options are: Blank; Not Blank; Equals; Is Not Equal To. ■ If the column type is Number, the options are: Blank; Not Blank; Equals; Is Not Equal To; Less Than; Greater Than Less Than or Equal To; Greater Than or Equal To. ■ If the column type is String, the options are: Contains; Starts With; Ends With; Blank; Not Blank; Equals; Is Not Equal To; In; Not In.
Type	Select from the following options: ■ Fixed - the value to be applied to the expression is a fixed value. This is the default value. ■ Relative - this option is available if the selected column is a date. This allows the date value to be applied to the expression relative to the date the report is run, rather than as a fixed date. For examples of usage, see Table 3–3.
Runtime Value	Check the box if the value is to be entered by the user when the report is scheduled. Otherwise, enter a fixed value in the value column. The box is unchecked by default.
Ignore Case	Check the box if the comparison value does not need to be case-sensitive. The box is checked by default; it only shows if the column is a text field.
Value	Enter the value to be applied by the operator. If the column is a lookup to a glossary, or an enumeration, use the picker to select a single value from the available options (see Figure 3–5). Options to filter and search the list appear at the top of the dialog box. Click Search to apply any selections. The paged list of available values shows the item description and code, along with its status in the glossary. For Specification glossaries, the contents are not populated until the specification type has been selected. For enumerations (lists of keywords), a simple drop-down picker is used. For dates, a date picker is used. When the report is run, the time-zone of the user who scheduled the report is assumed. This field is disabled if the runtime value box is checked; it is hidden if the type is Relative and the unit is Run Date.
Unit	If the type is Relative and is a fixed value (not a runtime value), select from the options: Run Date; Day; Week; Month; Year. This field is hidden unless the type is Relative; if the runtime value box is checked, the field is disabled.

Figure 3–5 Filter Selector

Filter Selector

Specification Type: Food

Include Status: ☐ Draft ☐ Inactive ☒ Active

Search Search

Active	Description	Code
Yes	Certification Body	CERTIFICATION_BODY
Yes	Contract Auditor	CONTRACT_AUDITOR

Page: 1 of 1 Rows per page: 30 Displaying items 1 to 2 of 2

Ok Cancel

Table 3–3 Examples of Filters

Filter	Column	Operator	Type	Runtime Value	Ignore Case	Value	Unit
Is a Food specification	Spec Type	Equals	Fixed	N	Y	Food	-
Is a specific type of specification	Spec Type	Equals	Fixed	Y	Y	-	-
Created today	Creation Date	Equals	Relative	N	-	-	Run Date
Created in the last x days	Creation Date	Less Than or Equals	Relative	Y	-	[runtime value]	Day
Created in the last x	Creation Date	Less Than or Equals	Relative	Y	-	[runtime value]	[runtime value]
Not created this year	Creation Date	Not Equals	Relative	N	-	0	Year
Approved in the last week	Approval Date	Less Than or Equals	Relative	N	-	1	Week
Due in the next 2 months	Due Date	Greater Than or Equals	Relative	N	-	2	Month
Due last month or next month	Due Date	Greater Than or Equals OR Less Than or Equals	Relative	N	-	1	Month
List of dates includes the run date	List of Dates	Contains	Relative	N	-	-	Run Date

Filters for Specification and Audit API Data Sources

If the data source is Spec API or Audit API, an alternative filters table is presented, with the available filters being those that the associated Brand Compliance API provides.

Figure 3–6 API Filter Table
Table 3–4 API Filters Table

Details	Description
Column	Select from the available columns, based on the API's filter parameters.
Runtime Value	Check the box if the value is to be entered by the user when the report is scheduled. Otherwise, enter a fixed value in the value column. The box is unchecked by default.
Value	Enter the value to be applied by the operator. If the column is a lookup to a glossary, or an enumeration, use the picker to select a single value from the available options (see Figure 3–5). Options to filter and search the list appear at the top of the dialog box. Click Search to apply any selections. The paged list of available values shows the item description and code, along with its status in the glossary. For Specification glossaries, the contents are not populated until the specification type has been selected. For enumerations (lists of keywords), a simple drop-down picker is used. For dates, a date picker is used. When the report is run, the time-zone of the user who scheduled the report is assumed. This field is disabled if runtime value box is checked. It is hidden if the type is Relative and the unit is Run Date.

The filtering parameters available for the Specification API data source can be found in the *Oracle Retail Brand Compliance Management Cloud Service Implementation Guide*.

The filtering parameters available for the Audit API data source are as follows (data for Audits and Visits and their Non-conformances/Issues is returned, Checklist data is not returned):

- Audit Code
- Audit Template
- Completed Date From/Until date range (searches the Status History table)
- Due Date From/Until date range
- Technologist (select from all users, list can be filtered to just retailer users)
- Supplier (text field searches name and code for an exact match)
- Site (text field searches name and code for an exact match)

Note: The Brand Compliance APIs are optimized to just return data from the Product Specification or Audit/Visit record. There are therefore limitations on how much related data is available in the API data sources. For example, the status of the Site associated to a specification or audit is held on the Site record, so is not returned by the Specification or Audit APIs.

Query Costs and Weightings

In order to minimize the risk of reports with excessive content, validation is applied to limit the number of columns that can be selected based on the *cost* of a column.

Columns with a single value per output row have a cost based solely on the complexity of calculating the value (which for non-calculated columns is near zero); columns where there may be multiple values are significantly more expensive while columns where there may be multiple sets of multiple values are significantly more expensive still.

The columns selected in filters count toward the total, with each row in the filters table incurring a cost. If the limit is exceeded, the following message is shown: *Maximum number of report columns exceeded. Please reduce the number of selected columns or filters.* The maximum number of rows returned in a report is 200,000.

Data Warehouse Facility

In order to minimize the risk of performance hits on the application when running high-volume reports such as ingredient searches, a Data Warehouse facility is provided, where certain queries run on a copy of the data taken for reporting purposes rather than the actual application data.

The synchronization of the data takes place automatically, with the refresh interval being controlled by the *Reporting Data Warehouse Update Interval (mins)* system parameter. The initial default is 90 minutes; the minimum is 10 minutes.

The time it takes to refresh the data is the number of minutes set in the system parameter plus the length of time it takes to process the updates. This means that if a report is run, then a value in the report is changed within the application, and the report is immediately rerun, the change will not be reflected in the report if the refresh has not yet taken place. The refresh processing takes place in the reporting batch job queue, however controls are in place to prevent it consuming the queue.

Note: Any reports that are submitted while the data warehouse refresh is running will be queued until the refresh is complete. On completion, the data warehouse refresh job is automatically rescheduled to run again in 90 minutes (or whatever interval is configured).

The reporting data source queries that are sourced from the data warehouse are as follows:

- Ingredients Where Used (ING_WHERE_USED)
- Ingredients Country of Origin (RAWM_ING_COO)
- Ingredients Suppliers (RAWM_ING_SUP)
- Ingredient Usage Quantity (ING_USAGE_QUAN)
- Raw Material Sustainability (RAWM_SUSTAIN)

Report Templates

Report Templates define the layout and data content of a report. Report templates are combined with data sources to form report designs which are scheduled to run as a report. A report template may be used in any number of report designs. Report

Template records act as a container for the actual report template, which is a Rich Text Format (RTF file).

Note: The supplied core report templates cannot be edited directly, but can be copied and adapted to form custom variants. The system-delivered templates cannot be deactivated or deleted.

To access the Report Templates, select the Manage Report Templates option in the Reporting Admin area. This is only accessible to users with the Advanced Reporting Administrator authority profile.

The list of report templates is displayed, grouped by status. A single *Default* list view is provided. For each template, the description, code, and version are shown. A column indicates if the template is one of the system-delivered core set.

Figure 3–7 Report Templates Page

Select search column

Enter search criteria

Advanced Search

Select List View: Default

All

(85) Active

(8) Draft

(8) Superseded

Description

Code

Version

System Delive...

Activity Status Performance Summary

ACTIVITY STATUS PERFORMANCE SUMMARY

1

Yes

Activity Status Performance Summary per Business Category

ACTIVITY STATUS PERFORMANCE SUMMARY PER BUSINESS CATEGORY

1

Yes

Activity Status Performance Summary per Project Manager

ACTIVITY STATUS PERFORMANCE SUMMARY PER PROJECT MANAGER

1

Yes

Activity Status Performance Summary per Supplier

ACTIVITY STATUS PERFORMANCE SUMMARY PER SUPPLIER

1

Yes

Audits-Visits by Date Range

AUDITS-VISITS BY DATE RANGE

1

Yes

Dietary, Allergen, Additional Info - Present-Free From

DIETARY, ALLERGEN, ADDITIONAL INFO - PRESENT-FREE FROM

1

Yes

To see the details for a specific template, double-click the row. A tab opens with the details. You can also select the View or Edit actions.

Note: The Report Template records can be imported and exported using the Import and Export list view actions, however the RTF template files are excluded.

If using the Import action to create a new template, the system delivered flag must be set to No, otherwise the imported data source will not be editable.

Creating a Report Template

To create a new template:

- 1. Select the New action. The New Report Template page appears.

Figure 3–8 New Report Template Page

2. Enter the details.

Table 3–5 New Report Template Page

Details	Description
Code	Enter a unique uppercase code for this template. Mandatory field.
Version	The version will default to 1. Read-only field.
Status	This will default to Draft. Read-only field.
System Delivered	This will default to No. Read-only field.
Description	Enter the description for this template in the supported languages. The description for the default language is mandatory.
RTF Template File	Click Browse to select a single RTF file to be used as the actual report template. The name of the selected file is then shown here. For information about RTF template files, see " Appendix: Designing RTF Templates ."

3. Save the changes and exit.

Editing a Report Template

To edit a template, select the template on the Report Templates page and then select the Edit action. The report template record opens in edit mode in a new tab.

Report Templates are maintained as a versioned glossary. When the template is created, it is assigned version 1 and the status will be Draft. At this status, all fields except the code, version, status, and system delivered flag may be edited.

The system delivered flag identifies if the record is part of the suite of delivered core reports, in which case the flag will be Yes. The system delivered templates may be copied using the Copy action to form new custom variants, in which case the flag will be No.

Figure 3–9 Report Template Details

Details	
Code:	INGREDIENTS COUNTRY OF ORIGIN
Version:	1
Status:	Active
System Delivered:	Yes
Description (Default):	Ingredients Country of Origin
Description (Swedish):	-
RTF Template File:	CR02_Ingredients_Country_of_Origin.rtf

Activating the Report Template

Use the Activate action to activate the template. The status is changed to Active, making the template available for use in report designs. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Deactivating the Report Template

Use the Deactivate action to deactivate the template. The status is changed to De-activated, making it unavailable for use in new report designs. Any existing active report designs that use the template will continue to do so. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Note: Users with the Oracle Authorized Administrator authority profile can edit the record at any status, however the code, version, status, and system delivered flag remain locked.

Deleting the Report Template

Use the Delete action to delete the template. The template may only be deleted if it is not active and has not been used by any report designs.

Downloading RTF Template Files

The Download Template action downloads the attached RTF template file. Use this option to download the actual template file for editing or creating a variant of the report. For information on building RTF templates, see "[Appendix: Designing RTF Templates](#)."

Report Designs

Report Designs combine a data source with a report template to form a report that can be scheduled to run. A report design may be used in any number of report schedules.

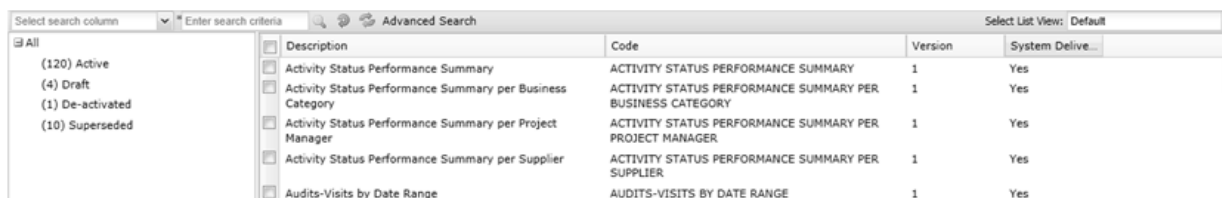
Note: The supplied core report designs cannot be edited directly, but can be copied and adapted to form custom variants. The system-delivered designs cannot be deactivated or deleted.

Filters can be used to refine the report design to a data set appropriate for a particular type of report.

To access the Report Designs, select the Manage Report Designs option in the Reporting Admin area. This is only accessible to users with the Advanced Reporting Administrator authority profile.

The list of report designs is displayed, grouped by status. A single *Default* list view is provided. For each report design, the description, code, query name, and version are shown. A column indicates if the design is one of the system delivered core set.

Figure 3–10 Report Designs Page



Select search column	Enter search criteria	Advanced Search	Select List View: Default
All			
(120) Active			
(4) Draft			
(1) De-activated			
(10) Superseded			
	Description	Code	Version
	Activity Status Performance Summary	ACTIVITY STATUS PERFORMANCE SUMMARY	1
	Activity Status Performance Summary per Business Category	ACTIVITY STATUS PERFORMANCE SUMMARY PER BUSINESS CATEGORY	1
	Activity Status Performance Summary per Project Manager	ACTIVITY STATUS PERFORMANCE SUMMARY PER PROJECT MANAGER	1
	Activity Status Performance Summary per Supplier	ACTIVITY STATUS PERFORMANCE SUMMARY PER SUPPLIER	1
	Audits-Visits by Date Range	AUDITS-VISITS BY DATE RANGE	1
			System Delivered
			Yes
			Yes
			Yes
			Yes
			Yes

To see the details for a specific report design, double-click the row. A tab opens with the details. You can also select the View or Edit actions.

Note: The Report Design records can be imported and exported using the Import and Export list view actions, however rows in the Filters table that relate to glossary selections or enumerations are excluded.

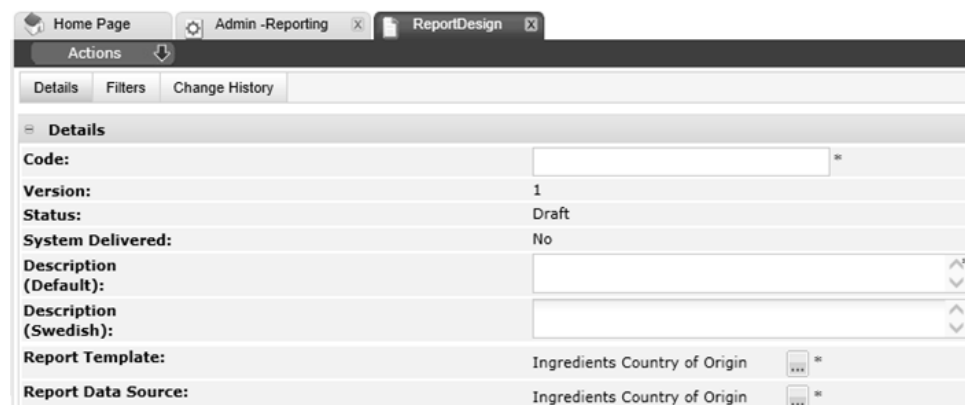
If using the Import action to create a new report design, the system delivered flag must be set to No, otherwise the imported report design will not be editable.

Creating a Report Design

To create a new report design:

1. Select the New action. The New Report Design page appears.

Figure 3–11 New Report Design Page



Home Page		Admin -Reporting		ReportDesign	
Actions					
Details Filters Change History					
Details					
Code:					
Version:	1				
Status:	Draft				
System Delivered:	No				
Description (Default):					
Description (Swedish):					
Report Template:	Ingredients Country of Origin				
Report Data Source:	Ingredients Country of Origin				

2. Enter the details.

Table 3–6 New Report Design Page

Details	Description
Code	Enter a unique uppercase code for this report design. Mandatory field.
Version	The version will default to 1. Read-only field.
Status	This will default to Draft. Read-only field.
System Delivered	This will default to No. Read-only field.
Description	Enter the description for this report design in the supported languages. The description for the default language is mandatory.
Report Template	Click the icon to select the report template to be used for this report design.
Report Data Source	Click the icon to select the data source to be used for this report design.

- Optionally add any filters to be applied to the report design. See ["Filters for Report Designs."](#)
- Save the changes and exit.

Editing a Report Design

To edit a report design, select the report design on the Report Designs page and select the Edit action. The report design record opens in edit mode in a new tab.

Report Designs are maintained as a versioned glossary. When the report design is created, it is assigned version 1 and the status will be Draft. At this status, all fields except the code, version, status and system delivered flag may be edited.

The system delivered flag identifies if the record is part of the suite of delivered core reports, in which case the flag will be Yes. The system delivered report designs may be copied using the Copy action to form new custom variants, in which case the flag will be No.

Figure 3–12 Report Design Details

Code:	INGREDIENTS COUNTRY OF ORIGIN
Version:	1
Status:	Active
System Delivered:	Yes
Description (Default):	Ingredients Country of Origin
Description (Swedish):	-
Report Template:	Ingredients Country of Origin
Report Data Source:	Ingredients Country of Origin

Activating the Report Design

Use the Activate action to activate the report design. The status is changed to Active, making the report design available to report schedules. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Deactivating the Report Design

Use the Deactivate action to deactivate the report design. The status is changed to De-activated, making it unavailable to report schedules. Any existing active report schedules that use the report design will continue to do so. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Note: Users with the Oracle Authorized Administrator authority profile can edit the record at any status, however the code, version, status, and system delivered flag remain locked.

Deleting the Report Design

Use the Delete action to delete the report design. The report design may only be deleted if it is not active and has not been used by any report schedules.

Filters for Report Designs

Filters can be applied to report designs to refine the data included in the report when it is run.

The Filters page shows any filters that have been applied to the data source (these cannot be edited), above the table for adding filters to the report design. For information about adding filters, see ["Filters"](#) in the Data Sources section.

Figure 3–13 Report Design Filters

The screenshot displays the 'Report Design Filters' configuration page. At the top, there are tabs for 'Details', 'Filters', and 'Change History'. Below these, the 'Data Source Filters' section is active, showing a table with one filter: 'Spec Type' using the 'Equals' operator, 'Fixed' type, 'No' runtime value, 'Yes' ignore case, and 'Food' value. Below this, the 'Report Design Filters' section is shown, which includes buttons for 'Add', 'Delete', 'Insert', 'Move Up', and 'Move Down'. It contains a table with one filter: 'Country Where Sold' using the 'Equals' operator, 'Fixed' type, 'UK' value, and 'and' logic. The interface includes various input fields, dropdown menus, and checkboxes for configuring filters.

If the data source is Spec API or Audit API, an alternative filters table is presented, with the available filters being those that the associated Brand Compliance API provides.

When the report is run, the filters are applied as any data source filters AND any report design filters.

KPI Report Templates

A Key Performance Indicator (KPI) is a specific type of report where a single item of data can be aggregated over time to provide a measure which can be reported on or presented in a dashboard as a simple table or as a chart. An example of a KPI could be a weekly count of the number of active products or supplier sites, or the number of audits due to be completed in the next 30 days.

The KPI values are keyed by the Report Schedule Code and timestamp of when the KPI was measured. The KPI value can be selected as a data source to be included in a report template to define the actual KPI report, or presented in a dashboard.

KPIs are scheduled to run in the same way as reports; each time the KPI is run, the measure is calculated and stored. The values are stored in a separate *KPI Results* folder within the Report Outputs area. A KPI template may be used in any number of report schedules.

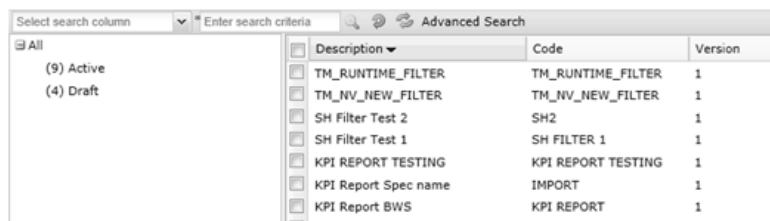
The aggregation function allows for measures to be calculated based on minimum, maximum or average values or the sum, count or number of distinct values in a set of data.

Filters can be used to refine the template to a data set appropriate for a particular type of KPI.

To access the KPI Report Templates, select the Manage KPI Report Templates option in the Reporting Admin area. This is only accessible to users with the Advanced Reporting Administrator authority profile.

The list of KPI report templates is displayed, grouped by status. A single *Default* list view is provided. For each template, the description, code, and version are shown.

Figure 3–14 KPI Report Templates Page



	Description	Code	Version
☐	TM_RUNTIME_FILTER	TM_RUNTIME_FILTER	1
☐	TM_NV_NEW_FILTER	TM_NV_NEW_FILTER	1
☐	SH Filter Test 2	SH2	1
☐	SH Filter Test 1	SH FILTER 1	1
☐	KPI REPORT TESTING	KPI REPORT TESTING	1
☐	KPI Report Spec name	IMPORT	1
☐	KPI Report BWS	KPI REPORT	1

To see the details for a specific template, double-click the row. A tab opens with the details. You can also select the View or Edit actions.

Note: The KPI Report Template records can be imported and exported using the Import and Export list view actions, however rows in the Filters table that relate to glossary selections or enumerations are excluded.

Creating a KPI Report Template

To create a new KPI report template:

1. Select the New action. The New KPI Report Template page appears.

Figure 3–15 New KPI Report Template Page

The screenshot shows a web application interface for creating a new KPI report template. At the top, there are tabs for 'Home Page', 'Admin -Reporting', and 'KPIReport'. Below the tabs is a navigation bar with 'Actions', 'Details', 'Filters', and 'Change History'. The 'Details' tab is active, showing a form with the following fields:

- Code:** A text input field with an asterisk.
- Version:** A text input field with the value '1' and an asterisk.
- Status:** A text input field with the value 'Draft' and an asterisk.
- Description (Default):** A text input field with an asterisk.
- Description (Swedish):** A text input field with an asterisk.
- Query:** A dropdown menu with an asterisk.
- Selected Column:** A dropdown menu with an asterisk.
- Aggregate Function:** A dropdown menu with an asterisk.

2. Enter the details.

Table 3–7 New Report Design Page

Details	Description
Code	Enter a unique uppercase code for this template. Mandatory field.
Version	The version will default to 1. Read-only field.
Status	This will default to Draft. Read-only field.
Description	Enter the description for this template in the supported languages. The description for the default language is mandatory.
Query	Select the query that corresponds to the data to be measured by the KPI. Mandatory field. The options in the list are fixed, based on the set of predefined queries provided by Oracle.
Selected Columns	Once the query has been selected, pick the column to be measured by the KPI. Mandatory field.
Aggregate Function	Select the aggregate function to be applied the KPI measure. Mandatory field. The available options are: ■ Minimum - the minimum in a range of values ■ Maximum - the maximum in a range of values ■ Sum - the sum of a set of values ■ Average - the average of a set of values ■ Count - the number of occurrences in a set of values ■ Distinct - the number of unique occurrences in a set of values The Sum and Average options are only available if the selected columns is a numeric field.

- Optionally add any filters to be applied to the report design. See ["Filters for KPI Report Templates."](#)
- Save the changes and exit.

Editing a KPI Report Template

To edit a KPI report template, select the template on the KPI Report Templates page and select the Edit action. The template record opens in edit mode in a new tab.

KPI Report Templates are maintained as a versioned glossary. When the template is created, it is assigned version 1 and the status will be Draft. At this status, all fields except the code, version and status may be edited.

Figure 3–16 KPI Report Template Details

Details	Filters	Change History
Details		
Code:	AUDIT30	
Version:	1	
Status:	Active	
Description (Default):	Audits due in 30 days	
Description (Swedish):	-	
Query:	Audit	
Selected Column:	Code	
Aggregate Function:	Distinct	

Activating the KPI Report Template

Use the Activate action to activate the template. The status is changed to Active, making the template available for use. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Deactivating the KPI Report Template

Use the Deactivate action to deactivate the template. The status is changed to De-activated, making it unavailable for use in new KPIs. Any existing active KPIs that use the template will continue to do so. At this status, no fields may be edited (see the note below), but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Note: Users with the Oracle Authorized Administrator authority profile can edit the record at any status, however the code, version, status, and system delivered flag remain locked.

Deleting the KPI Report Template

Use the Delete action to delete the template. The template may only be deleted if it not active and has not been used by any KPIs.

Filters for KPI Report Templates

Filters can be applied to a KPI template to refine the data included in the KPI when it is run.

For information about adding filters, see ["Filters"](#) in the Data Sources section.

Figure 3–17 KPI Template Filters

Details	Filters	Change History																			
KPI Filters																					
Add 1 Delete Insert Move Up Move Down																					
☐	<table> <thead> <tr> <th>Column</th><th>Operator</th><th>Type</th><th>Runtime Value</th><th>Ignore Case?</th><th>Value</th><th>Unit</th><th></th><th></th></tr> </thead> <tbody> <tr> <td> Country Where Sold </td><td> Equals </td><td> Fixed </td><td>☐</td><td>☒</td><td> UK </td><td> </td><td> </td><td>☐ and ☐ or</td></tr> </tbody> </table>	Column	Operator	Type	Runtime Value	Ignore Case?	Value	Unit			Country Where Sold	Equals	Fixed	☐	☒	UK			☐ and ☐ or		
Column	Operator	Type	Runtime Value	Ignore Case?	Value	Unit															
Country Where Sold	Equals	Fixed	☐	☒	UK			☐ and ☐ or													

When the KPI is run, the filters are applied in addition to any filters that may have been applied when the KPI was scheduled.

Other Report Administration Options

Various other report administration options are available, for the purging of report outputs, monitoring the queue of scheduled report, and controlling the data warehouse synchronization.

Report Purging

Report outputs may be deleted individually by the user who scheduled the report, or by reporting administrators.

To avoid relying on users deleting their reports when no longer required, and in order to not store reports longer than necessary, an automated purging facility is available.

The purging of reports takes place automatically, with the retention period being controlled by the *Number of days to keep Reports* system parameter. The initial default is 90 days; the maximum is 365 days; if not set, no purging takes place. The parameter may be configured by users with the Oracle Authorized Administrator authority profile. If the parameter is changed, a message is shown, warning that changing the number of days that reports are retained may result in existing reports becoming due for purging.

If enabled, two daily batch jobs run on a regular schedule:

- To check for reports that, based on the last update date, are due to be purged in the next 5 days. An email (the template is REPORTPURGE) is sent to the user who scheduled the report, warning that the report will be deleted within the next 5 days.
- To delete reports that have reached the deadline for being deleted (that is x days after their creation date, where x is the system parameter).

Note: The outputs of reports and data extract are eligible for automated purging, however the outputs of KPIs are excluded from the purge facility. They must be manually deleted when no longer required.

Monitoring Scheduled Reports

When reports are scheduled, they are submitted to run on the portal's batch job queue. Facilities are provided for users to view the progress of scheduled reports and to cancel a report that is scheduled or running.

Viewing Scheduled Reports

For system administrators with access to the batch job log, the description column in the log list view will include details of scheduled reports.

For users with the Advanced Reporting Administrator authority profile, a Manage Scheduled Reports option is available in the Reporting Admin area. This presents a subset of the batch job log, filtered to just show reporting jobs that are scheduled, in progress, complete, or have failed. It includes all reporting jobs, regardless of who submitted them. Also included are the jobs that synchronize the data warehouse reporting data.

Figure 3–18 Manage Scheduled Reports Page

Actions 						
☐ Date & Time	Scheduled By	Description	Status	Sub Status	Job Number	
☐ 21/11/18 11:52	John Smith	Scheduled Report Ingredients Where Used by John Smith	✓	Completed	13182	
☐ 21/11/18 11:52	Jane Doe	Scheduled Report Sites with Audits-Visits Due or Overdue by Jane Doe	✓	Completed	13181	
☐ 21/11/18 11:45	John Smith	Scheduled Report Nutrient FoP Profile by Product by John Smith	✓	Failed	8579	
☐ 21/11/18 11:19	John Smith	Scheduled Report Nutrient Targets by Target Category by John Smith	✓	Completed	13167	
☐ 01/11/18 12:13	John Smith	Scheduled Report Nutrient FoP Profile by Product by John Smith	✓	Completed	8791	
☐ 01/11/18 10:10	Jane Doe	Scheduled Report Ingredients Where Used by Jane Doe	✓	Completed	8777	
☐ 01/11/18 09:57	John Smith	Scheduled Report Spec Report #45 BWS by John Smith	✓	Completed	8775	

To see the details for a job, double-click the row. A tab opens with the report's Report Schedule details. You can also select the Open Report Schedule action.

If the job is in progress, the sub status column indicates the stage of process, such as:

- Stage 1 of 3: Counting results
- Stage 2 of 3: Processing data
- Stage 3 of 3: Creating output

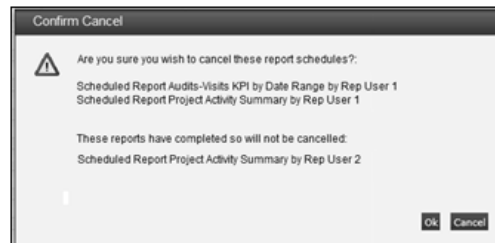
Individual users who submit the report can monitor it through the Schedules page of the Report Schedule record. For details, see ["Scheduling Reports."](#)

Cancelling Scheduled Reports

Users with the Advanced Reporting Administrator authority profile have the ability to cancel any reporting job through the Manage Schedule Reports page.

To cancel a scheduled report:

1. Choose the reporting job to be cancelled.
2. Select the Cancel action. The Confirm Cancel dialog box appears.

Figure 3–19 Confirm Cancel Scheduled Report

If multiple schedules have been selected, the confirmation prompt lists those that have been selected. If any cannot be cancelled because they have since completed, they are listed beneath.

3. To continue the cancellation, click **Ok**. To return to the Manage Schedules Report page, click **Cancel**.

When a report schedule job is cancelled, the job is terminated, or is removed from the scheduler if it has yet to run. The History page of the Report Schedule record will show the status as having been cancelled, and a notification email (the template is REPORT_CANCELLED) is sent to the user who scheduled the report.

Individual users who submit the report can cancel it through the Schedules page of the Report Schedule record. For details, see ["Scheduling Reports."](#)

Note: To prevent a recurring report from being automatically scheduled again, delete or edit its Report Schedule record.

System Parameters

To manage the parameters for reporting, select the System Control option and then System Parameters. Table 3-8 describes the available parameters.

Table 3–8 System Parameters Used to Manage Reports

Subtab	Parameter	Description
Global	Number of days to keep Reports	Sets the number of days a report will be retained after creation, before being deleted by the automated purging facility. The user who scheduled the report will receive an email notification 5 days prior to the deletion date. Default is 90 days. The maximum is 365 days. If not set, no purging takes place.
Global	Reporting Data Warehouse Update Interval (mins)	Sets the data refresh interval for the synchronization of certain application data with a Data Warehouse for reporting purposes. Mandatory field. Default is 90 minutes. The minimum is 10 minutes.
Global	Reporting Server URL	This parameter is only used if the legacy <i>Jaspersoft</i> reporting solution is being used alongside the Brand Compliance reporting solution during a period of transition. If a URL is present, the Legacy Reporting option will appear in the Reports navigation menu, as a link to the URL.

Report Output Folders

When reports are generated, they are saved in a library of folders. A hierarchical structure of nested folders can be maintained. The library has three separate areas for the outputs of reports, KPIs, and data extracts.

The Report Output Folders can be created by users with the Advanced Reporting Administrator authority profile.

Note: Folders cannot be added to the KPI Reports area, as they are managed by the system.

Figure 3–20 Report Output Folders Page



Creating a Report Output Folder

To create a report output folder:

1. Select an existing folder in the left hand pane, under which the new folder is to appear.

2. Select the New Folder action in the left hand pane. The Enter Folder Name dialog box appears.

Figure 3–21 Folder Name Dialog Box



3. Enter the folder name and any language translations.
4. To continue, click **Ok**. To return to the Report Outputs page, click **Cancel**.

Editing a Report Output Folder

To change the name of a report output folder or to add language translations:

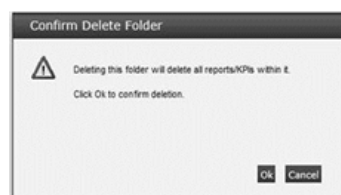
1. Choose the folder and select the Edit Folder action in the left hand pane. The Folder Name dialog box appears.
2. Enter the new name and any language translations.
3. To continue, click **Ok**. To return to the Report Outputs page, click **Cancel**.

Deleting a Report Output Folder

To delete a report output folder:

1. Choose the folder and select the Delete Folder action in the left hand pane. A delete confirmation dialog box appears. If the folder contains report outputs, they will also be deleted, in which case the message *Deleting the folder will delete all reports/KPIs within it* is shown.

Figure 3–22 Confirm Delete Folder



2. To continue with the deletion, click **Ok**. To return to the Report Outputs page, click **Cancel**.

Creating Reports

This chapter describes the process for creating new reports.

The Reports module is supplied with a suite of core reports that cover various areas of the Brand Compliance data. The core reports cannot be changed, but can be copied to form variants, and new custom reports can be created.

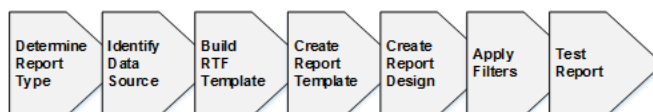
Reports are run from templates that define the layout and data content of the report. Each report has a template that is configured by combining a Data Source and Report Template as a Report Design (see "[Report Administration](#)"). New report templates can be configured by users with the Advanced Reporting Administrator authority profile.

Reports layouts can be configured to include sorting, grouping, conditional logic, totalling, and charts.

Once a report template has been created, it is scheduled to run (see "[Scheduling Reports](#)"), at which point the actual report output is generated (see "[Viewing Reports](#)"). The report outputs may be generated as PDF, Excel, RTF, or HTML documents.

Building New Templates

The general process for creating a new template is as follows:



1. Determine the Record Type.

First determine the type of report to be built, that is, is it a tabular report, a form report or simply a KPI measure:

- The majority of the supplied reports present data in a tabular format where each row of the table represents an item at the level of the report's granularity, such as a row per supplier, or a row per product specification, or a row per ingredient within the product's recipe.
- Some reports present the data in a form layout, where each page or set of pages represents an item. The pages of the form can contain individual fields as well as tables. Examples of form reports are Specification Reports, where a variety of information about a product is collated within a document, or the Audit Certificate report, where details of a supplier's latest audit and any non-conformances are presented as a document.
- An alternative to a report is a KPI, which measures a single value, typically over a period of time. These can be reports, or represented as a dashboard

table or chart. KPI templates are configured in a similar way to report templates.

If a template does not already exist for the report, check if there is a similar template either in terms of report layout or data content. Copying an existing template and adapting it is usually quicker than building from scratch. For details of the reports supplied as part of the core suite, see "[Appendix: Report Layouts](#)."

2. Identify the Data Source.

Report data sources (see "[Data Sources](#)") provide the domains of data that can be used within reports. Each data source represents a set of columns from one of the predefined queries that expose the Brand Compliance data for reporting purposes.

If a suitable data source exists, it can be used for the report design. Otherwise, create a new data source, selecting the required columns and applying any filters.

3. Build the RTF Template.

The actual contents and layout of the report are defined by its RTF template. The RTF templates can be built using a word processor such as Microsoft Word, that has a purpose-built *Template Builder* plug-in. For information on building RTF templates, see "[Appendix: Designing RTF Templates](#)."

4. Create the Report Template.

Report templates (see "[Report Templates](#)") act as a container for the RTF template.

Create a new Report Template record and attach the RTF file as an attachment.

5. Create the Report Design.

Report designs (see "[Report Designs](#)") combine a data source and report template together to provide the means of scheduling the report.

Create a new Report Design record and select the report's data source and report template.

6. Apply Filters.

Filters are used to refine the data source to a subset that is appropriate for the purpose of the report.

Filters can be applied as selection criteria at three levels: directly to the data source, to the report design, or when the report is scheduled to run. The filters can be fixed values, or can be a runtime prompt to the user to enter the value when they schedule the report.

Filters can be added to fields without actually including the field itself in the report layout.

In order to minimize the impact of users submitting reports that result in high volumes of processing or content, a means of assigning a cost to the columns added to a report design is used to limit the content. A maximum limit of 200,000 rows within a report is also imposed.

7. Test the Report.

Before deploying the new report, test the layout, content, and any filters. Some considerations are as follows:

- Identify a specific record that you expect to appear in the report, so that you can use this as a marker to filter the report and check that the report output is as expected.

- Apply an initial filter which limits the report output to just the marker record you have identified, for example, the particular Specification Number. The filter can be removed once you have finished designing the report.
- For reports that are expected to return a large number of records, which could exceed the allowed size of the report, it is useful to add filters that can limit the number of records a particular instance of the report will return. For example, limit the records by Specification Number range, Specification Type, and Specification Status.
- Where filters have been applied, initially test using a minimal set of data.
- For reports that routinely require different values to be selected for a particular filter (such as the same report filtered and run for different business categories), use runtime filters.

Scheduling Reports

This chapter describes the process for scheduling a report to run.

Users with the Advanced Reporting User or Advanced Reporting Administrator authority profiles have the ability to schedule a report to run by selecting a report design and choosing its run frequency and recipients. Filtering may also be applied at the point of scheduling the report, to further refine the data contained within the report.

Reporting users may view existing report schedules they are associated with, and can edit those that they have created. Reporting administrators have full access to all report schedules.

KPIs are scheduled in a similar way to reports.

Note: There are no system delivered report schedules.

To access the Report Schedules, select the Report Schedules option in the Reports navigation menu.

The list of report schedules is displayed, grouped by status. A single *Default* list view is provided, plus *My Report Schedules* (those the user has scheduled) and *Associated Report Schedules* (those the user is a recipient of.) For each schedule, the code, version, description, report type, and scheduled from/to dates are shown.

Figure 5–1 Report Schedules Page

Select search column	Enter search criteria	Advanced Search	Select List View: Default
(173) Active			
(15) Draft			
(1) De-activated			
(13) Superseded			
Description	Code	Version	Report Type
Dietary, Allergen, Additional Info - Suitable For	DIETARY, ALLERGEN, ADDITIONAL INFO - SUITABLE FOR	1	Report
External System Email	EXTERNAL_SYSTEM_EMAIL	1	Report
PNF MULTI VAR SPEC API	PNF MULTI VAR SPEC API	1	Report
Ingredient Suppliers (3)	INGREDIENTS SUPPLIERS	1	Report
Ingredients Country of Origin (2)	INGREDIENTS COUNTRY OF ORIGIN	1	Report
Ingredients Usage Quantity (4a)	INGREDIENTS USAGE QUANTITY	1	Report
Ingredients Usage Quantity per Business Category	INGREDIENTS USAGE QUANTITY PER BUSINESS CATEGORY	1	Report
Ingredients Where Used	ING WHERE USED	1	Report
Ingredients Where Used	INGREDIENTS WHERE USED	1	Report

To see the details for a specific schedule, double-click the row. A tab opens with the details. You can also select the View or Edit actions.

Creating a Report Schedule

To create a new report schedule:

1. Select the New action. The New Report Schedule page appears.
2. Enter the details.

3. Save the changes and exit.

Report Schedule Details Tab

Figure 5–2 Report Schedule Details Page

The screenshot displays the 'Report Schedule Details' page. It features a top navigation bar with tabs: Details, Access Control / Recipients, Filters, Schedules, History, and Change History. The 'Details' tab is active. The page is divided into several sections:

- Details:** Fields for Code (text), Version (1), Status (Draft), Description (Default), Description (Swedish), Report Type (Report), Report Design (icon), and Report Design Status (icon).
- Report Schedule:** Radio buttons for Schedule Type (Single, Recurring, Periodic) and Frequency (Day of the Week, Day of the Month). A 'Current scheduled report submission:' section shows a 'Day of the Week' grid (H, T, W, Th, F, Sa, Su) with checkboxes. Below this is 'Schedule Time' (dropdown) and 'Schedule To Date' (calendar icon).
- Report Output:** 'Save Output To:' (text), 'Overwrite Existing Outputs:' (checked checkbox), 'Report Output Name:' (text), and 'Format:' (icon).

Table 5–1 New Report Schedule Page - Details

Details	Description
Code	Enter a unique uppercase code for this template. Mandatory field.
Version	The version will default to 1. Read-only field.
Status	This will default to Draft. Read-only field.
Description	Enter the description for this schedule in the supported languages. The description for the default language is mandatory.
Report Type	Select whether scheduling a report or a KPI. The default option is Report.
Report Design	If scheduling a report, click the icon to select the report design. This field is hidden if KPI is selected as the report type. Mandatory field.
Report Design Status	This indicates whether the schedule is using the latest version of the report design or not. The message <i>Report Design is up to date</i> is shown if the report design has not been changed since it was selected. If the report design has changed, the message <i>A new version of the Report Design is available, please create a new version to get the latest design</i> is shown, in which case a new version of the report schedule should be created to utilize the latest design. This field is hidden if KPI is selected as the report type. Read-only field.
KPI Report	If scheduling a KPI, click the icon to select the KPI report template. This field is hidden if Report is selected as the report type. Mandatory field. Note: If this is changed once the first KPI value has been created, the cumulative result for the KPI may no longer be valid, as it will be a mixture of different measures.

Table 5–2 New Report Schedule Page - Report Schedule

Details	Description
Schedule Type	Select whether the report is to run as a single instance, or on a recurring or periodic schedule. The default option is Single. If set to Single, the report will run once on the specified date and time. In this case, the recurring and periodic fields are hidden. If set to Recurring, the report will run repeatedly on a selected day of the week or day of the month (within a date range if one is specified) at a given time. In this case, the periodic fields are hidden. If set to Periodic, the report will run repeatedly every x weeks or months (within a date range if one is specified) at a given time. In this case, the recurring fields are hidden.
Recurring Frequency	If the schedule type is recurring, select the frequency the report is to be run. The options are to repeatedly schedule the report by days of the week, or by days of the month. The default option is day of the week. The field is hidden unless the schedule type is Recurring.
Day of the Week	If the schedule type is recurring and the recurring frequency is days of the week, select the days of the week on which the report is to run. Mandatory field. The field is hidden unless the schedule type is Recurring and the recurring frequency is days of the week.
Day of the Month	If the schedule type is recurring and the recurring frequency is days of the month, select the days of the month on which the report is to run. Mandatory field. The field is hidden unless the schedule type is Recurring and the recurring frequency is days of the month.
Periodic Frequency	If the schedule type is periodic, select whether the scheduling frequency is by a number of weeks or months. The field is hidden unless the schedule type is Periodic.
Schedule From Date	Pick the first date that the report is to run. If the schedule type is Single, it will only run on this date. The default is the current date. Mandatory field.
Schedule To Date	Optionally pick the last date that the report is to run. The field is hidden if the schedule type is Single.
Schedule Time	Set the time that the report is to run on its scheduled dates. The time may be selected from the picker in half hour intervals, or a precise time can be entered.
Current scheduled report submission	If the report has already been scheduled, this indicates the next time the report will run based on the schedule criteria. Read-only field.

The scenarios catered for by the schedule types are as follows:

Single

The report will just run once - on the specified from date.

Recurring

The report will run repeatedly, either by day of the week or day of the month. At least one day of the week (Monday to Sunday) or day of the month (between 1st and 31st). The report will run on the selected days that occur from the start date to the end date (if one has been set), inclusive.

The scheduler takes into account the number of days in the month, and if scheduled to run on the 29th, 30th, or 31st and that date does not exist in a month, it adjusts to the last day of the month. For example, if scheduled to run on the 31st from January, in February it will run on 28th (or 29th if a leap year). When this occurs, however, for subsequent months it will continue to run on the adjusted day of the month.

Periodic

The report will run repeatedly over a set number of weeks or months, such as every 2 weeks or every 3 months. The report will run on the specified start date, repeating thereafter on the same day of the week or month for the selected interval, from the start date to the end date (if one has been set), inclusive.

For example, if set to run every 2 weeks and the first date is a Monday, it will next run on the Monday of 2 weeks hence, or if set to run every 3 months and the first date is the 7th, it will next run on the 7th 3 months hence.

For a periodic scheduling by days, the Recurring option by Day of the Week can be used.

Note: The scheduler handles any necessary conversion to the portal server's time zone, so the report will run at the scheduled date and time in the time zone of the user who scheduled the report.

It should be noted that reports that use the current date to determine whether something is to be reported as due or overdue, the current date is based on the time zone of the server (which should be UTC). For portals that operate across multiple time zones, this should be taken into account when scheduling the time the report is to run.

The field-set, shown in the following table, is hidden if the report type is KPI, as there is no output as such, a single calculated result is written to the database instead.

Table 5–3 New Report Schedule Page - Report Output

Details	Description
Save Output To	Click the icon to select the folder where the report output is to be saved. Mandatory field. See "Report Output Folders."
Overwrite Existing Outputs	Select Yes if the generated output is to overwrite any existing output for the same report. The default option is Yes. If set to Yes, the list of report outputs will just contain the latest run of the report, with its run date and time appended to the report name. If set to No, the list of report outputs will contain all runs of the report, each with its run date and time appended to the report name. Note: If Yes and multiple outputs already exist, all existing instances will be removed and replaced by the new output.
Report Output Name	Enter the name the report is to show as when it appears in the report outputs folder. The run date and time will be appended to this name when the report is generated. Mandatory field. Characters that would result in an invalid file name, such as / and \, are not permitted.
Format	Select which format you wish the report to be generated in. More than one option can be chosen. The options are MS Excel, HTML, PDF, and Rich Text Format.

Access Control/Recipients Tab

This page controls which users have access to the report or KPI output and who will be sent an email with a link when the output is generated.

Figure 5–3 New Report Schedule Access Control/Recipients Page

Table 5–4 New Report Schedule Access Control/Recipients Page

Details	Description
Users	Click the icon to select individual users to be recipients. Select the user's job role to locate them. The list is restricted to those that have access to the Reports module.
User Roles	Click the icon to select job roles for any users with the role to be a recipient.
External Systems	Click the icon to select any external systems that are to have access to a report output using the Report Attachment API.

Filters Tab

Optionally add any filters to be applied to the report schedule. For information about adding filters, see ["Filters."](#)

Figure 5–4 Report Schedule Filters Page

The Data Source Filters and Report Design/KPI Filters tables show any filters that have been applied to the data source or report design respectively.

If any have been specified as runtime filters, enter the value here, otherwise these tables show as read-only. The runtime filter option is not relevant for report schedule filters.

The filters are applied as any data source filters AND any report design filters AND any report schedule/KPI filters. For date filters, the time-zone of the user who scheduled the report is assumed.

Note: A snapshot of any filters applied in the associated data source, KPI, or report design is held on the report schedule. If changes are made to the associated filters, a new version of the report schedule must be created.

When a new version of a report schedule is created, its filters are refreshed from the current filters in the associated glossary records (if any).

When at draft status, the Actions menus include a *Refresh Report Filters* option which will reset the filters that have been derived from the associated data source, KPI, or report design. A confirmation prompt is presented prior to the filters being reset. The values of any runtime filters will be cleared.

Editing a Report Schedule

To edit a report schedule, select the schedule on the Report Schedules page and select the Edit action. The report schedule record opens in edit mode in a new tab.

Report Schedules are maintained like a versioned glossary. When the report schedule is created, it is assigned version 1 and the status will be Draft. At this status, all fields except the code, version, and status may be edited.

Figure 5–5 Report Schedule Details

Actions			
Details Access Control / Recipients Filters Schedules History Change History			
Details			
Code:	SITES WITH AUDITS-VISITS DUE OR OVERDUE PER AUDIT-VISIT TYPE		
Version:	1		
Status:	Active		
Description (Default):	SITES WITH AUDITS-VISITS DUE OR OVERDUE PER AUDIT-VISIT TYPE		
Description (Swedish):	-		
Report Type:	Report		
Report Design:	Sites with Audits-Visits Due or Overdue per Audit-Visit Type		
Report Design Status:	Report Design is up to date		
Report Schedule			
Schedule Type:	Single	Current scheduled report submission:	Not Scheduled
Schedule Time:	19:09	Schedule From Date:	04/10/18
Report Output			
Save Output To:	Standard Report	Report Output Name:	Z7C_SITES WITH AUDITS-VISITS DUE OR OVERDUE PER AUDIT-VISIT TYPE
Overwrite Existing Outputs:	Yes	Format:	MS Excel PDF

Submitting a Schedule

When the required schedule details have been entered, to submit the report to run:

1. Select the Activate action. A submission confirmation prompt dialog box appears. It shows when the report will run, based on the schedule details.

Figure 5–6 Confirm Report Submission

If the portal is operating the Enhanced Access Control (EAC) permissions feature, a check is made to compare any named recipients' EAC Area restrictions to those of the user submitting the report. [Table 5–5](#) indicates the scenarios that would result in the recipient not being permitted to access the report, in which case an exception will be listed in the dialog box.

Table 5–5 EAC Report Schedule Exception Scenarios

Scheduler's EAC Areas	Recipient's EAC Areas	Recipient can access the report?
None	None	Yes
None	A, B	No
A, B	None	Yes
A, B	A, B	Yes
A, B	A	No
A, B	C	No
A, B	A, B, C	Yes

2. To continue the submission, click **Ok**. To return to the Report Schedule page, click **Cancel**.

The report schedule record is saved, the status is set to Active, and the job is submitted to the scheduler job queue.

When the status becomes Active, the report schedule record becomes read-only. If changes are required, deactivate the schedule and create a new version.

Note: Users with the Oracle Authorized Administrator authority profile can edit the record at any status. Users with the Advanced Reporting Administrator authority profile can edit any draft schedule. Users with the Advanced Reporting User authority profile can edit draft schedules that they have created.

Deactivating the Report Schedule

Use the Deactivate action to deactivate the schedule. The status is changed to De-activated, making it unavailable for scheduling. At this status, no fields may be edited, but the Create New Version action can be used to create a new version at Draft status, with the version automatically incremented by 1.

Any report outputs that have been created by the schedule remain unaffected.

Deleting the Report Schedule

Use the Delete action to delete the schedule. The template may only be deleted if it is not active and has not generated any report outputs.

Report Generation

When the report runs, the following takes place:

- The report is constructed using the associated RTF template. The contents appear in the language/local of the user who scheduled the report, translations being automatically applied to system text and glossary data where appropriate. If language, then for any translations that do not exist, the portal's base language is substituted.
- The report is created in the chosen file formats. The file name is in the format:
[Report Name] - [YYYY-MM-DD-HH-MM-SS].[File Type]
For example: Ingredients Where Used - 2018-07-27-14-58-21.pdf
- If the user who scheduled the report has EAC Area access control restrictions, they are applied to the data - so the report will only contain data that their EAC Area permits them access to.
- A Report Output record is created containing the report files. The execution date and time is appended to the report output name. See ["Viewing Reports."](#)

If the report contains no data, the Report Output record is created, but the actual output file attachment is not created.

- An email with a hyperlink is sent (as BCC) to the recipients (the template is REPORTDELIVERY or KPIDELIVERY for KPIs). The content of the email is based on the recipient's language/locale.

Note: In order to avoid the creation of reports with excessive content, a maximum number of rows is permitted. If the report generation exceeds the 200,000 limit, the report generation is terminated with the error message: *Maximum number of permitted report rows exceeded. Please use filters to reduce the size and retry.*

- An entry is added to the report schedule's History page.

History Tab

When the report has run, details will appear in the schedule's History page.

Figure 5–7 Report Schedule History Page

Details					Access Control / Recipients	Filters	Schedules	History	Change History															
<table><tr><th>Ran On</th><th>Duration</th><th>Results</th><th>Scheduled By</th><th>Status</th></tr><tr><td>09/10/18 17:47</td><td>00:00:08</td><td>8</td><td>John Smith</td><td></td></tr><tr><td>09/10/18 17:21</td><td>00:00:08</td><td>8</td><td>John Smith</td><td></td></tr></table>										Ran On	Duration	Results	Scheduled By	Status	09/10/18 17:47	00:00:08	8	John Smith		09/10/18 17:21	00:00:08	8	John Smith	
Ran On	Duration	Results	Scheduled By	Status																				
09/10/18 17:47	00:00:08	8	John Smith																					
09/10/18 17:21	00:00:08	8	John Smith																					

The list shows the date and time of the run (most recent first), how long it took to run, the number of results in the report, who scheduled it, and the status of the job.

Double-click a row in the list to view the full details. The page is read-only.

Figure 5–8 Report Schedule History Details

Actions			
Sites with Audits-Visits Due or Overdue per Supplier			
Report History Query Log			
Details			
Schedule Code:	SITES WITH AUDITS-VISITS DUE OR OVERDUE PER SUPPLIER	Schedule Description:	278_Sites with Audits-Visits Due or Overdue per Supplier
Report Type:	Report	Report Design:	Sites with Audits-Visits Due or Overdue per Supplier
Ran On:	09/10/18 17:21	Duration:	00:00:00
Scheduled By:	John Smith jh	Results:	8
Status:	Success	Failures:	-

Table 5–6 Report Schedule History Details

Details	Description
Schedule Code	The code that uniquely identifies the report schedule.
Schedule Description	The name of the report schedule.
Report Type	Whether a report or a KPI.
Report Design	The report design that the report is based on.
Ran On	The date and time the report ran.
Duration	The length of time it took to generate the report.
Scheduled By	The name of the user who scheduled the report.
Results	The number of rows that appear in the report.
Status	The status of the schedule. If the status shows the success , it has successfully completed; if it shows the failure , an error occurred. If a report exceeds the maximum number of permitted rows, the stop icon is shown.
Failures	In the event of a failure or stoppage, the exception message.

The Query Log page is available to the Report Administrator. It shows the data selection and record count SQL query statements that the report or KPI has applied.

Figure 5–9 Report Schedule History Details - Query Log

Report History Query Log	
Details	
Query:	<pre>select KPI.c_duration duration, KPI.c_ran_on ran_on, KPI.fk_reportfolder report_folder, KPI.c_value_big_dec value_number, KPI.c_value_text value_text, coalesce(KPI.c_value_big_dec, KPI.c_value_text) value, SCHEDULED_BY_PERSON.c_name scheduled_by from t_kpires KPI left outer join t_user SCHEDULED_BY_USER on SCHEDULED_BY_USER.c_id=KPI.fk_scheduledby left outer join t_person SCHEDULED_BY_PERSON on SCHEDULED_BY_PERSON.c_id=SCHEDULED_BY_USER.fk_person limit 200001</pre>
Count Query:	<pre>select count(*) from (select KPI.c_id kpi_id from t_kpires KPI) countinnerquery</pre>

Reports that use an API as their data source rather than an SQL query will show the text *Queries executed are not available for API-based Reports* instead.

Monitoring Scheduled Reports

Once a report is submitted, the user who submitted it, and reporting administrators can monitor its progress, and may cancel the job if necessary.

Schedules Tab

To view the job progress of the scheduled report, open the Schedules page. The page shows the current status of the schedule and a list of any queued or running instances of the report.

There will typically not be more than one entry in this list, if a report is already scheduled and is resubmitted, the existing schedule will be updated with the new date and time.

The list has columns for the scheduled date and time, the name of the user who submitted it, its status, and a sub status. If the job is in progress, the sub status indicates the stage of process, such as:

- Stage 1 of 3: Counting results
- Stage 2 of 3: Processing data
- Stage 3 of 3: Creating output

Figure 5–10 Report Schedule Schedules Page

Schedules				
Current scheduled report submission: Not Scheduled				
Actions	Date & Time	Scheduled By	Status	Sub Status
	06/09/18 09:22	John Smith		2 of 3 - Retrieving Data

Cancelling a Scheduled Report

To cancel a scheduled report:

1. From the Schedules page, select the Cancel action. A Confirm Cancel dialog box appears.
2. To continue the cancellation, click **Ok**. To return to the Schedules page, click **Cancel**.

When a report schedule job is cancelled, the job is terminated, or is removed from the scheduler if it has yet to run. The History page will show the status as having been cancelled, and a notification email (the template is REPORT_CANCELLED) is sent to the user who scheduled the report.

3. Click the Refresh icon to refresh the contents of the schedules list.

Report Scheduling Best Practices

Some best practices to consider when scheduling reports are as follows:

- Avoid excessive reports and potential performance issues by planning for the report contents before submitting it to run. Choose the report design and filters appropriate to the required output.
- For reports that run regularly, particularly large reports, where feasible, schedule them to run outside of the usual business hours.
- When setting the schedule time, avoid regular maintenance times, when the server may be being taken down.
- Consider the portal's data refresh time interval if reporting on data sourced from the data warehouse (see "[Data Warehouse Facility](#)").

- For reports that focus on data at a point in time, take into account that users who enter the data may have their working day in a different time zone.
- Ensure other recipients of the report have permission to access the report and the data therein. Recipients will only be able to view the report output if they are a user of the system with access to the Report module.

Note that other than any EAC Area restrictions, it is possible for a report to contain data that a recipient would not usually have access to when accessing Brand Compliance. For further details on the reporting permissions rules, see ["Appendix: Permissions."](#)

- Select the report output formats (typically Excel or PDF) that are appropriate to the report type and the recipients. Avoid choosing more formats than are necessary.
- After submitting a report to run, avoid repeatedly resubmitting it while waiting for it to complete. Use the schedule monitoring facility (see ["Monitoring Scheduled Reports"](#)).
- Where it is not necessary to retain previous versions of the report, use the option to overwrite existing report outputs rather than creating a new output each time the report is run.
- Delete report outputs that are no longer required, rather than relying on the automated purging.
- If historic copies of the report are required to be retained, save the report output to a local or network location rather than storing them within the system.

Viewing Reports

This chapter describes the process for viewing reports that have been generated.

Users with the Advanced Reporting User, Advanced Reporting Reader, or Advanced Reporting Administrator authority profiles have access to the report outputs. Reporting users and readers have access to reports they have scheduled or are the recipient of; reporting administrators have access to all report outputs.

To access the Report Outputs, select the Report Outputs option in the Reports navigation menu.

The report outputs are stored in a library of folders, which can be nested within a hierarchy. The folder is specified when the report is scheduled to run. The folder structure has separate areas for reports, KPIs, and data extracts. The number of entries within each folder is indicated.

Figure 6–1 Report Outputs Page

The screenshot shows the 'Report Outputs' page. On the left, a 'Select Folder' pane displays a hierarchy: 'Report Results' (1), 'John Smith' (11), 'Nutrition Reports', 'KPI Results', and 'Data Extracts'. The 'John Smith' folder is selected, showing 11 items. On the right, a table lists these items with columns: Report Name, Ran On, Scheduled By, Results, and Open. All items are 'Ingredients Country of Origin' reports scheduled by 'John Smith'.

Report Name	Ran On	Scheduled By	Results	Open
Ingredients Country of Origin	28/11/18 09:12	John Smith	10	
Ingredients Country of Origin	28/11/18 09:13	John Smith	1	
Ingredients Country of Origin	28/11/18 09:10	John Smith	1	
Ingredients Country of Origin	28/11/18 09:08	John Smith	1	
Ingredients Country of Origin	27/11/18 17:35	John Smith	1	
Ingredients Country of Origin	27/11/18 12:52	John Smith	10	
Ingredients Country of Origin	27/11/18 12:51	John Smith	10	
Ingredients Country of Origin	27/11/18 13:07	John Smith	1	
Ingredients Country of Origin	27/11/18 13:05	John Smith	1	
Ingredients Country of Origin	27/11/18 13:04	John Smith	1	
Ingredients Country of Origin	27/11/18 11:32	John Smith	1	

Locate a report by navigating through the folder hierarchy, or using the search box. The columns can be sorted in ascending or descending sequence.

Selecting a folder in the left-hand pane shows its report outputs in the right-hand pane with columns for the report name, date and time the report ran, the name of the user who scheduled the report, the number of rows that appear in the report, and links to the actual reports.

The list is filtered to just show reports that the user is permitted to access.

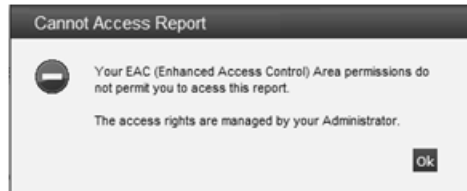
For KPI results, the list shows the schedule description, the run date and time, who scheduled it, and the actual calculated value. All the KPI information is shown in the list, so for KPIs there is no Report Output record to open.

Viewing Report Outputs

To see the details for a report, double-click the row. A tab opens with the details. You can also open the actual report by clicking the icon in the Open column, then choosing to open or save the file. The page is read-only.

If the portal is operating the Enhanced Access Control (EAC) permissions feature, if you are assigned EAC Area restriction, they must match those of the user who scheduled the report in order to open it, otherwise the Cannot Access Report message box is shown.

Figure 6–2 Cannot Access Report Message Box



In the case of KPIs, the KPI result will not be visible if the EAC Area restrictions do not match.

See [Table 5–5](#) for the EAC Area restriction scenarios.

If attempting to open report output that has subsequently been overwritten by the report running again, that is, where the schedule is set to replace the existing output, or it has been deleted by another user, the message *The Report has been deleted or replaced, please refresh the results and try again* is shown.

Report Output Details Tab

Figure 6–3 Report Outputs Details Page

Details

Schedule Code:	CR02	Schedule Description:	Ingredients Country of Origin
Report Type:	Report	Report Design:	Ingredients Country of Origin

Report Schedule

Ran On:	27/11/18 12:51	Duration:	00:00:01
Results:	10	Scheduled By:	John Smith
Schedule Type:	Single	Schedule Last Modified:	28/11/18 09:12
Schedule From Date:	27/11/18	Schedule Time:	20:43
Next Scheduled Run:	29/11/18 07:00		

Access Control / Recipients - Users

User Name	Email

Access Control / Recipients - User Roles

User Role

External Systems

Login Id	Email

Output

Download	File Name or URL	Description	Bytes	Attached By	Attached On
	Ingredients Country of Origin.pdf	Ingredients Country of Origin	25 KB	John Smith	27/11/18
	Ingredients Country of Origin.xls	Ingredients Country of Origin	126 KB	John Smith	27/11/18

Table 6–1 Report Output Details Page

Details	Description
Schedule Code	The code that uniquely identifies the report's schedule record.
Schedule Description	The name of the report's schedule record.
Report Type	Whether a report or a KPI.
Report Design	The report design that the report is based on.
Ran On	The date and time the report ran.
Duration	The length of time it took to generate the report.
Scheduled By	The name of the user who scheduled the report.
Schedule Type	Whether a Single, Recurring, or Periodic schedule.
Schedule Last Modified	The date and time the report's schedule record was last modified.
Schedule From Date	The first date the report was scheduled to run on.
Schedule To Date	The last date the report is scheduled to run on (if any).
Schedule Time	The time the report is scheduled to run at.
Next Scheduled Run	The next date and time the report is scheduled to run.
Access Control/Recipients - Users	A list of any individuals that have been designated recipients (in addition to the user who scheduled the report), showing name and email address.
Access Control/Recipients - Users	A list of any job roles that have been designated recipients (in addition to the user who scheduled the report). All users with the roles will become a recipient of the report (subject to them being a reporting user).
External Systems	A list of any external systems that have are permitted to access to the report using the Report Attachment API.
Output	A list of the actual report files, held as attachments, with columns showing an icon of the file format, the file name, the report description, the size of the file in bytes, the name of the user who scheduled the report, and the date it was created.

Click the icon in the Download column to view the report, then choose to open or save the file.

The actual report can then be viewed using an application appropriate to the file type (such as Microsoft Excel or Adobe Acrobat PDF Reader).

Note: If opening a report in Excel, it may be necessary to manually adjust the columns, rows, and wrapping to suit the layout.

Tabular reports are best viewed using Excel, form reports are less suited to the Excel format.

Report Output Filters Tab

The Filters page shows any Data Source Filters, Report Design/KPI Filters, or Report Schedule Filters that were applied to the report. The page is read-only.

For information about filters, see ["Filters."](#)

Deleting Report Outputs

Reporting administrators may delete any report output record; reporting users may delete only those that they have scheduled.

To delete a report:

1. Check the report to be deleted (more than one may be selected).
2. Select the Delete action. A Delete Document dialog box appears.
3. To continue the deletion, click **Ok**. To return to the Report Outputs page, click **Cancel**.

Alternatively, open the report output record in edit mode and select the Delete action.

KPI Dashboards

This chapter describes the facilities for creating Key Performance Indicator (KPI) reports. These may be simple reports or presented as a dashboard on the Home page.

KPIs differ from reports in that they report on a single value that is measured at a point in time. A dashboard can present the result as a simple table or as a chart. An example of a KPI could be a weekly count of the number of active products or supplier sites, or the number of audits due to be completed in the next 30 days.

A KPI is based on a KPI Report Template, which are configured to specify a single column from a data source and the aggregate function to calculate the required measure. KPI templates can be configured by users with the Advanced Reporting Administrator authority profile. For details on the administration of KPI templates, see ["KPI Report Templates."](#)

The following aggregate functions are available:

- Minimum - the minimum in a range of values
- Maximum - the maximum in a range of values
- Sum - the sum of a set of values
- Average - the average of a set of values
- Count - the number of occurrences in a set of values
- Distinct - the number of unique occurrences in a set of values

Once a KPI template has been created it is scheduled to run in the same way as a report (see ["Scheduling Reports"](#)), at which point the actual value is calculated and saved in the KPI Results area of the Report Outputs (see ["Viewing Reports"](#)).

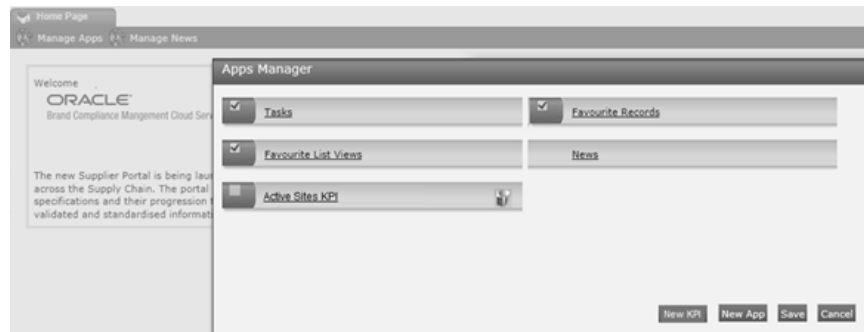
KPI Dashboards can be created, edited, and deleted by users with the Advanced Reporting Administrator authority profile. The KPI dashboards can then be selected to display on the home page of users with the Advanced Reporting User and Advanced Reporting Reader authority profile if the user is a recipient of the KPI (and subject to any EAC Area restrictions).

For information on building KPI reports, see ["Appendix: Designing RTF Templates."](#)

Creating a KPI Dashboard

To create a new KPI dashboard:

1. On the Home page, click **Manage Apps**. The Apps Manager dialog box appears.

Figure 7–1 Apps Manager Dialog Box

- Click **New KPI**. The New KPI Dashboard page appears.

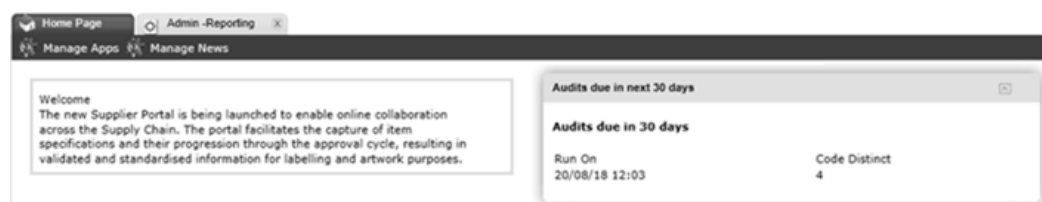
Figure 7–2 New KPI Dashboard Page

- Enter the details.

Table 7–1 New KPI Dashboard Page

Details	Description
Title	Enter the description for this KPI dashboard in the supported languages. The description for the default language is mandatory.
KPI	Select the KPI from the list of KPI Report Schedules you have access to. Mandatory field.
Dashboard Type	Select to show the KPI as either Tabular, a Bar Chart, or a Line Chart. The default option is Tabular.

- Save the changes and exit.
- Click **Manage Apps** again. The KPI now appears in the list of apps.
- Check the KPI and click **Save**. The KPI appears as an app on the Home page.

Figure 7–3 KPI Home Page Dashboard App

The app can be moved within the Home page by clicking and holding its title bar, then dragging and dropping at the desired location.

Editing a KPI Dashboard

To edit a KPI dashboard:

1. On the Home page, click **Manage Apps**. The Apps Manager dialog box appears.
2. Click the KPI dashboard title. The KPI Dashboard page appears.

Figure 7-4 KPI Dashboard Page



3. Select the Edit action and enter the details.
4. Save the changes and exit.
5. Check the KPI in the Apps Manager dialog box and click **Save** to close the Manage Apps dialog box and return to the Home page.

Deleting a KPI Dashboard

To delete a KPI dashboard:

1. On the Home page, click **Manage Apps**. The Apps Manager dialog box appears.
2. Click the Delete  icon next to the KPI dashboard title. A delete confirmation prompt appears.
3. To continue with the deletion, click **Ok**. To return to the Apps Manager dialog box, click **Cancel**.
4. Click **Save** to close the Manage Apps dialog box and return to the Home page.

Example: Audits Due in 30 Days KPI

This example creates a simple KPI dashboard to show the number of Audits due in the next 30 days.

1. Create a new Data Source (if a suitable data source does not already exist).

Code:	AUDITS_DUE_KPI
Description:	Audits Due KPI
Data Source Type:	Query
Selected Columns:	Code; Status; Due Date

Save and activate the data source.

2. Create the KPI Template to count the distinct number of Audits where the due date is less than 30 days, relative to the date the report is run.

Code:	AUDITS_DUE_30
--------------	---------------

Description:	Audits Due in 30 Days
Query:	AUDITS_DUE_KPI (Audits Due KPI)
Selected Column:	Code
Aggregate Function:	Distinct
Filter:	Column: Due Date
	Operator: Less Than
	Type: Relative
	Runtime Value: No
	Ignore Case: Yes
	Value: 30
	Unit: Day

Save and activate the template.

3. Create the Report Schedule to calculate the KPI.

Code:	AUDITS_DUE_30_KPI
Description:	Audits Due in the next 30 Days
Report Type:	KPI
KPI Report:	AUDITS_DUE_30 (Audits Due in 30 Days)

Set suitable scheduling options, then save and activate the schedule.

4. View the KPI Report Output.

Locate the entry in the Report Outputs, within the KPI Results folder, where the schedule description is Audits Due in the next 30 Days. The list view will show the date and time of calculation and the calculated value.

5. Add the KPI Dashboard to the Home page.

Click **Manage Apps** and select the Audits Due in the next 30 Days KPI.

Title:	KPI: Audits Due in the next 30 Days
Report Schedule:	Audits Due in the next 30 Days
Dashboard Type:	Tabular

Save and activate the KPI dashboard.

Click **Save** to close the Manage Apps dialog box. The KPI app appears on the Home page.

Data Extracts

This chapter describes the facilities for extracting the full contents of certain records to Comma-Separated Value (CSV) format files. The files can be viewed as spreadsheets or processed for further analysis by an external system.

The records that can be exported to CSV are Supplier, Site, Product Record, and Product Specification. Users with the Advanced Reporting Administrator authority profile have access to the export options.

The extract options are available from the list views of the supported record types. The Advanced Search facility can be used to filter the list view to the desired set of records to extract. The extract is run as a batch job, with an email notification being sent on completion. The generated CSV files are stored in the Report Outputs library.

In order to avoid the generation of excessively large CSV files, a size limit is imposed, based on the setting of the portal's *File Attachment Size Limit* system parameter.

Extracting Suppliers

To extract Suppliers:

1. Open a list view of Suppliers.
2. Use the Advanced Search facility to filter the contents to the suppliers you wish to extract.
3. Select the Extract Data action. The Confirm Data Extract dialog box appears.

Figure 8–1 Confirm Data Extract Dialog Box



4. Click the icon to select a language for which locale-dependent fields are to appear in the extract file. The default is your locale/language. This is a mandatory field.
5. Click the icon to select a report output folder where the generated data file is to be saved.

6. To continue with the extract, click **Ok**. To return to the list view, click **Cancel**.

A submission confirmation message box is shown. Click **Ok** to return to the Suppliers list view.

A Supplier-Site Data Extract batch job is submitted to create the extract file. On completion, you will receive an email notification with a link to the file in the Data Extracts area of the Report Outputs (see "[Viewing Extract Files](#)").

Note: In the event of the maximum file size being exceeded, the extract file will truncated at the end of the last complete record and a final row output, reading: FILE TRUNCATED - SIZE LIMIT EXCEEDED. In this case, the file name will be prefixed:
* INCOMPLETE.

Suppliers Extract File Contents

The same extract file is used for both supplier and site data extracts. The CSV file name is SupplierExtract, with the batch job number appended.

The file contains a row for each of the supplier's sites, but for the supplier extract, the only site data included is the site name (both local and business languages), site code, and site status.

The first row will contain the unique system text for the field; the second row will contain the system text specifically for reporting (both shown in the selected language). The first column will contain an incrementing sequence number, starting from 1 (this is of use to reset the file to the original sequence after making changes in Excel). The second column will contain an automatically assigned unique compound key based on the record type and field.

All fields on the Supplier record will be output, including any custom fields, but excluding change history data. The contents of any embedded list views (such as the list of Contacts) are not output.

The individual rows of tables are output as separate rows (the parent data is not repeated). For example, a supplier with two sites, each with two entries in their References table would output as:

1	Supplier A details	Supplier A, Site 1 details	Site A-1	Reference 1
2				Reference 2
3		Supplier A, Site 2 details	Site A-2	Reference 1
4			Site A-2	Reference 2
5	Supplier B details	Supplier B, Site 1 details	Site B-1	Reference 1
6				Reference 2
7		Supplier B, Site 2 details	Site B-2	Reference 1
8			Site B-2	Reference 2

Columns that relate to a glossary (such as Business Category) contain the Description (not the Code) of the glossary record. Contact information is included, but not contact roles.

Extracting Sites

To extract Sites:

1. Open a list view of Sites.
2. Use the Advanced Search facility to filter the contents to the sites you wish to extract.
3. Select the Extract Data action. The Confirm Data Extract dialog box appears.
4. Click the icon to select a language for which locale-dependent fields are to appear in the extract file. The default is your locale/language. This is a mandatory field.
5. Click the icon to select a report output folder where the generated data file is to be saved.
6. To continue with the extract, click **Ok**. To return to the list view, click **Cancel**.

A submission confirmation message box is shown. Click **Ok** to return to the Sites list view.

A Supplier-Site Data Extract batch job is submitted to create the extract file. On completion, you will receive an email notification with a link to the file in the Data Extracts area of the Report Outputs (see "[Viewing Extract Files](#)").

Note: In the event of the maximum file size being exceeded, the extract file will truncated at the end of the last complete record and a final row output, reading: FILE TRUNCATED - SIZE LIMIT EXCEEDED. In this case, the file name will be prefixed:
* INCOMPLETE.

Site Extract File Contents

The same extract file is used for both supplier and site data extracts (see "[Extracting Suppliers](#)"). The CSV file name is SiteExtract, with the batch job number appended.

The file contains a row for each site, with the parent supplier name (both local and business languages) and supplier code on the first site row.

All fields on the Site record will be output, including any custom fields, but excluding change history data. The contents of any embedded list views (such as the list of Contacts) are not output. The Growers List table is excluded.

Note: If a full combination of supplier and site data is required, two separate Supplier and Site extract files must be created and manually merged using the common Supplier Code as the key.

Extracting Product Records

To extract Product Records:

1. Open a list view of Product Records or Produce Product Records.
2. Use the Advanced Search facility to filter the contents to the products you wish to extract.
3. Select the Extract Data action. The Confirm Data Extract dialog box appears.
4. Click the icon to select a language for which locale-dependent fields are to appear in the extract file. The default is your locale/language. This is a mandatory field.

5. Click the icon to select a report output folder where the generated data file is to be saved.
6. To continue with the extract, click **Ok**. To return to the list view, click **Cancel**.

A submission confirmation message box is shown. Click **Ok** to return to the Product Records list view.

A Product Record Data Extract batch job is submitted to create the extract file. On completion, you will receive an email notification with a link to the file in the Data Extracts area of the Report Outputs (see "[Viewing Extract Files](#)").

Note: In the event of the maximum file size being exceeded, the extract file will truncated at the end of the last complete record and a final row output, reading: FILE TRUNCATED - SIZE LIMIT EXCEEDED. In this case, the file name will be prefixed:
* INCOMPLETE.

Product Records Extract File Contents

The CSV file name is ProductRecordExtract for non-Produce Product Records and ProduceProductRecordExtract for Produce Product Records, with the batch job number appended.

The first row will contain the unique system text for the field; the second row will contain the system text specifically for reporting (both shown in the selected language). The first column will contain an incrementing sequence number, starting from 1 (this is of use to reset the file to the original sequence after making changes in Excel). The second column will contain an automatically assigned unique compound key based on the record type and field.

All fields on the Product Record will be output, including any custom fields, but excluding change history data. The contents of any embedded list views (such as the list of Specifications) are not output.

Columns that relate to a glossary (such as Business Category) contain the Description (not the Code) of the glossary record.

Extracting Product Specifications

To extract Product Specifications or Produce Product Specifications:

1. Open a list view of Specifications or Produce Specifications.
2. Use the Advanced Search facility to filter the contents to the specifications you wish to extract.
3. Select the Extract Data action. The Confirm Specification Data Extract dialog box appears.

Figure 8–2 Confirm Specifications Data Extract Dialog Box

4. Select the specification type. If no specifications of the selected type appear in the list view, the extract file will be empty. This field is omitted if extracting Produce specifications, otherwise it is mandatory.
5. Select which section's data is to be extracted. The options are filtered based on the selected Specification Type. If no specifications of the selected type that appear in the list view contain the selected section type, the extract file will be empty. The field is mandatory.
6. Click the icon to select a language for which locale-dependent fields are to appear in the extract file. The default is your locale/language. This is a mandatory field.
7. Click the icon to select a report output folder where the generated data file is to be saved.
8. To continue with the extract, click **Ok**. To return to the Confirm dialog box, click **Cancel**.

A submission confirmation message box is shown. Click **Cancel** to return to the Specifications list view.

A Product Specification Data Extract batch job is submitted to create the extract file. On completion, you will receive an email notification with a link to the file in the Data Extracts area of the Report Outputs (see "[Viewing Extract Files](#)").

Note: In the event of the maximum file size being exceeded, the extract file will truncated at the end of the last complete record and a final row output, reading: FILE TRUNCATED - SIZE LIMIT EXCEEDED. In this case, the file name will be prefixed: * INCOMPLETE.

Product Specifications Extract File Contents

The CSV file name is ProductSpecificationExtract, with the batch job number appended.

The file contains details for the selected specification section.

The first row will contain the unique system text for the field; the second row will contain the system text specifically for reporting (both shown in the selected language). The first column will contain an incrementing sequence number, starting from 1 (this is of use to reset the file to the original sequence after making changes in Excel). The second column will contain an automatically assigned unique compound key based on the record type and field.

All fields on the Specification section will be output, including any custom fields, but excluding change history data.

In order to identify the specification, the left most columns of the output for any section will consist of the following from the Main Details section:

Specification Name; Spec Number; Version; Product Coverage (Quantity/Product Number/Alt. Product No. (comma-separated if multiple); Brand; Business Categories; Supplier Name & Code; Site Name & Code (comma-separated if multiple); Product Technologist; Specification Status.

The individual rows of tables are output as separate rows (the parent data is not repeated). For example, a specification with a recipe containing two ingredients, each with two raw materials would output as:

1	Spec 1 details	Ingredient A details	Ingredient A raw material 1 details
2			Ingredient A raw material 2 details
3		Ingredient B details	Ingredient B raw material 1 details
4			Ingredient B raw material 2 details
5	Spec 2 details	Ingredient A details	Ingredient A raw material 1 details
6			Ingredient A raw material 2 details
7		Ingredient B details	Ingredient B raw material 1 details
8			Ingredient B raw material 2 details

Columns that relate to a glossary (such as Business Category) contain the Description (not the Code) of the glossary record. Columns that have translations contain the value in the selected language, regardless of the specification's Pack Copy Language.

Viewing Extract Files

The generated data files are stored as Report Output records in a similar way as report and KPI outputs. See "[Viewing Report Outputs](#)."

To access the Data Extract files, select the Report Outputs option in the Reports navigation menu.

The extract files are located in the Data Extracts area, as a library of folders. The folder is specified when the extract is submitted.

Locate an extract file by navigating through the folder hierarchy, or using the search box. The columns can be sorted in ascending or descending sequence. The Report Name column shows the name of the extract file.

To see the details for an extract, double-click the row. A tab opens with the details. You can also open the actual file clicking the icon in the Open column, then choosing to open or save the file.

Report Output Details Tab

Figure 8–3 Data Extract Report Output Details Page

Report Results					
Details					
Report Name:	SupplierExtract_15014.csv			Report Type:	Data Extract
Ran On:	04/12/18 11:52			Duration:	00:00:03
Results:	82			Scheduled By:	John Smith
Output					
Download	File Name or URL	Description	Bytes	Attached By	Attached On
	SupplierExtract_15014.csv	Generation of a Supplier Data Extract CSV file	34 KB	John Smith	04/12/18

Table 8–1 Data Extract Report Output Details Page

Details	Description
Report Name	The name of the generated data extract CSV file.
Report Type	This will show as Data Extract.
Ran On	The date and time the extract ran.
Duration	The length of time it took to generate the file.
Results	The number of records in the file.
Scheduled By	The name of the user who scheduled the extract.
Output	A list of the actual extract files, held as attachments, with columns showing an icon of the file format, the file name, the report description, the size of the file in bytes, the name of the user who scheduled the extract, and the date it was created.

Click the icon in the Download column to view the extract, then choose to open or save the file.

Appendix: Report Layouts

This appendix summarizes the suite of core reports supplied with the Reports module. Following the list of reports are details of common aspects of the report layouts and formatting.

Note: Certain reports have predefined filters applied to include a specific specification type, such as:

- The Produce specific variants of reports.
- The Product Requirement Reports (CR42 to CR46) which have a variant per specification type.
- The specification type-specific Label Claims Statements reports (CR54 to CR57).

To make changes to the system-delivered filters, take a copy of the system-delivered data source or design, and edit the filters as required.

For further details of each report layout and its fields and filters, see *Oracle Retail Brand Compliance Management Cloud Service Report Layouts*.

Standard Reports

Table A–1 *Standard Reports*

Report	Description
CR01 Ingredients Where Used	Based on the Food Recipe & RM and FNF Formulation & RM sections, the report searches Product Specifications for the specified ingredients. Can search for multiple ingredients, and specify All or Any, where All will locate specifications containing all of the specified ingredients, and Any will locate specifications that contain any of the specified ingredients.
CR02 Ingredients Country of Origin	Based on the Food Recipe & RM and FNF Formulation & RM sections, the report searches Product Specifications for ingredients from specified countries of origin, or specific ingredients from specified countries of origin. Can search for multiple countries, or multiple ingredients and countries. Can specify All or Any, where All will locate specifications containing all of the specified countries/ingredients, and Any will locate specifications that contain any of the specified countries/ingredients.
CR03 Ingredient Suppliers	Based on the Food Recipe & RM and FNF Formulation & RM sections, the report searches Product Specifications containing any ingredients from the specified Raw Material Suppliers, or for specific ingredients from the specified Raw Material Suppliers. Can search for multiple suppliers or ingredients. Can specify All or Any, where All will locate specifications containing all of the specified ingredients from the suppliers, and Any will locate specifications that contain any of the specified ingredients from the suppliers.
CR04 Ingredients Usage Quantity	Two versions: a) Ingredients Usage Quantity; b) Ingredients Usage Quantity (per Business Category). Based on the Food Recipe & RM and FNF Formulation & RM sections, the report searches Product Specifications for specific Ingredients, to show the Quantities (Total %), plus Product Declared Quantity. Option is available to group the output by Business Category (full path). Can search for multiple ingredients, where the specification contains any of the specified ingredients. This report query should cover both the Allergens tab and the Contains tab in the Food or BWS specifications, and the Additional Information page in the Constructed and Formulated specifications. From this report query, users can create separate report outputs for a particular type of specification, or tabs within the specification (Allergens or Contains) if they wish, based on the questions they filter on.
CR05 Raw Materials Sustainability	Based on the Food Recipe & RM and FNF Formulation & RM sections, the report searches Product Specifications for specific Ingredients for the specified Sustainability categories. Can search for multiple ingredients and sustainability categories, where the specification contains any of the specified ingredients for the specified sustainability categories.

Table A–1 (Cont.) Standard Reports

Report	Description
CR06 Dietary, Allergen, Additional Info - Present/Free From	Based on the Dietary and Allergy and Additional Info sections, for all specification types except Produce, the report searches Product Specifications for specific allergens being either present or not present. Options are available to either include or exclude items with <i>Cross Contamination</i> risk, <i>Present on same line</i>, or <i>Present on same plant</i>. Originally intended to be pivoted, to show allergens as columns rather than rows, as the allergens are configurable per portal, this core report will report the allergens as rows rather than columns. Clients may build their own <i>pivoted</i> variants of the report using the "Soft-Coded Columns". Can search for multiple allergens. Can specify All or Any, where All will locate specifications containing all of the specified allergens, and Any will locate specifications that contain any of the specified allergens.
CR07 Dietary, Allergen - Suitable For	Based on the Dietary and Allergy section, the report searches Food Product Specifications for the specified Suitable For questions being answered Yes or No. Originally intended to be pivoted, to show allergens as columns rather than rows, as the allergens are configurable per portal, this core report will report the allergens as rows rather than columns. Clients may build their own <i>pivoted</i> variants of the report using the "Soft-Coded Columns". Can search for multiple questions. Can specify All or Any, where All will locate specifications containing all of the specific Suitable For questions being answered as specified, and Any will locate specifications that contain any of the specific Suitable For questions being answered as specified.
CR08 Nutrient Profile by Product	Based on the Nutrition section, the report searches Food, Produce, and BWS Product Specifications for those meeting a particular nutrition profile, by specifying nutrient and minimum/maximum values, such as to find the products which are greater than 10% Fat and 20% sugar. Option is available to define whether the values are Per 100 on pack g or Per Serving on pack. Originally intended to be pivoted, to show nutrients as columns rather than rows, as the nutrients are configurable per portal, this core report will report the nutrients as rows rather than columns. Clients may build their own <i>pivoted</i> variants of the report using the "Soft-Coded Columns". Can search for multiple nutrients. Can specify All or Any, where All will locate specifications containing all of the specified nutrients with a matching min/max value, and Any will locate specifications that contain any of the specified nutrients with a matching min/max value. Note: The report will be pivoted to have one row per Product, with the selected Nutrients appearing as columns. To obtain all products, the Nutrient filters can be set to, for example, >0.
CR09 Nutrient Targets	Two versions: a) Nutrient Targets (per Product); b) Nutrient Targets (per Target Category). Based on the Nutrition section, the report searches active specifications which meet or do not meet their nutrient targets, filtered by Nutrient and Nutrient Target Category (achieved by the Nutrient Target Filter). Can search for multiple nutrients. Can specify All or Any, where All will locate specifications containing all of the specified nutrients which meet the target, and Any will locate specifications that contain any of the specified nutrients that meet the target.
CR11 CNF Materials Country of Origin	Based on the CNF Specifications Components section, the report searches for Product Specifications containing any materials from specified countries of origin, or specified components from specified countries of origin. Can search for multiple countries, or multiple components and countries, and specify All or Any.

Table A–1 (Cont.) Standard Reports

Report	Description
CR13 Product Certificates - Used on Pack	Two versions: a) Product Certificates - Used on Pack; b) Product Certificates - Used on Pack (per Certificate). Based on the Other Labelling Copy section, the report searches Product Specifications where the Certificates table contains the specified certificate type. Option is available to group the output by Certificate Type. Only certificates that appear on pack are included (that is, where the Used on Pack option is number, icon, or both).
CR14 Product Shelf Life	Two versions: a) Product Shelf Life [for Food and BWS specifications]; b) Product Shelf Life (Produce). Based on the Storage section, the report searches Product Specifications where the Supplier or Business Category matches the specified value. The report lists details from the Pack Coding table. Can search for multiple suppliers or business categories.
CR15 Packaging Components	Based on the Packaging section, the report searches Product Specifications (all types except Produce) for those containing any Packaging Components from specified Raw Material Suppliers, Countries of Origin, or Materials. Can search for multiple suppliers, countries, or materials, locating specifications that match the specified selections.
CR16 Packaging Components (Produce)	The report searches Produce Product Records for those containing any Packaging Components from specified Raw Material Suppliers, Countries of Origin, or Materials. Can search for multiple suppliers, countries, or materials, locating specifications that match the specified selections. Note: A filter is applied to the system-delivered Data Source record, to only include Produce specifications.
CR18 Surveillance Testing Requirements - Product Attributes (As Consumed)	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR19 Surveillance Testing Requirements - Physical Standards	Two versions: a) Surveillance Testing Requirements - Physical Standards for non-Produce specifications; b) Surveillance Testing Requirements - Physical Standards (Produce) for Produce. Based on the Finished Product Standards section, the report searches Product Specifications (all types) for those containing any Product Surveillance Classifications that match the specified value. The report lists details from the Physical Attributes tables.
CR20 Surveillance Testing Requirements - Chemical Standards	Two versions: a) Surveillance Testing Requirements - Chemical Standards for non-Produce specifications; b) Surveillance Testing Requirements - Chemical Standards (Produce) for Produce. Based on the Finished Product Standards section, the report searches Product Specifications (all types) for those containing any Product Surveillance Classifications that match the specified value. The report lists details from the Chemical Attributes tables. The report is from the perspective of the Specification, but pulls Surveillance Classifications from the Product record (except for Produce, which holds the surveillance classifications in the specification's Main Details section).

Table A-1 (Cont.) Standard Reports

Report	Description
CR21 Surveillance Testing Requirements - Microbiological Standards	Two versions: a) Surveillance Testing Requirements - Microbiological Standards for non-Produce specifications; b) Surveillance Testing Requirements - Microbiological Standards (Produce) for Produce. Based on the Finished Product Standards section, the report searches Product Specifications (all types) for those containing any Product Surveillance Classifications that match the specified value. The report lists details from the Microbiological Attributes tables. The report is from the perspective of the Specification, but pulls Surveillance Classifications from the Product record (except for Produce, which holds the surveillance classifications in the specification's Main Details section).
CR22 Surveillance Classifications	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR23 Surveillance Test Report Summary	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR24 Surveillance Results by Date Range	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR26 Audits/Visits by Date Range	The report provides a KPI trend analysis of completed Audits & Visits within a specified date range by supplier. A monthly analysis of the number of completed Audits/Visits, between specified date range is presented as table of the count of those with a completion date, sorted by audit/visit type, grouped by month of completion. Option is available to show the results by Audit Type.
CR27 Sites with Audits/Visits Due or Overdue	Three versions: a) Sites with Audits/Visits Due or Overdue; b) Sites with Audits/Visits Due or Overdue (per Supplier); c) Sites with Audits/Visits Due or Overdue (per Audit/Visit Type). The report searches due or overdue Audit/Visit, listing them by Site. The number of days due or overdue is calculated (+/- relative to the current date). Option is available to group the output by Supplier or by Audit/Visit Type. Separate reports can be run for due and overdue.
CR28 Audits/Visits with Issues Overdue	Three versions: a) Audits/Visits with Issues Overdue; b) Audits/Visits with Issues Overdue (per Supplier); c) Audits/Visits with Issues Overdue (per Audit/Visit Type). The report searches Audits & Visits that have overdue Issues, listing them by Site. The number of days overdue is calculated (+/- relative to the current date). Option is available to group the output by Supplier or by Audit/Visit Type.
CR31 Site References (Certificates) - All Valid / Overdue by Type	Two versions: a) Site References (Certificates) - All Valid/Overdue by Type; b) Site References (Certificates) - All Valid/Overdue by Type (per Supplier); c) Site References (Certificates) - All Valid/Overdue by Type (per Certificate Type). The report searches Sites that have certificates (references). Option is available to group the output by Supplier or by Certificate Type. Two separate reports list certificates that are either overdue or valid (a certificate is considered to be overdue if its expiry date is passed the current date).

Table A–1 (Cont.) Standard Reports

Report	Description
CR33 Project Status/Performance Summary	Four versions: a) Project Status/Performance Summary; b) Project Status/Performance Summary (per Supplier); c) Project Status/Performance Summary (per Business Category); d) Project Status/Performance Summary (per Project Manager). The report searches Projects, with option to filter by a range of project launch dates. Option is available to group the output by Supplier, by Business Category, or by Project Manager. If the project is overdue, the number of days overdue is calculated (based on the current date). No. Days Overdue = the <i>actual end date</i> minus the <i>proposed end date</i>, using the date the query is executed if the actual end date is not set. The column will be empty/null if the result of the calculation is less than or equal to 0 (that is, that the proposed end date is after or the same as the actual end date / the date the query is executed.)
CR34 Project Activity Status/Performance Summary	Four versions: a) Project Activity Status/Performance Summary; b) Project Activity Status/Performance Summary (per Supplier); c) Project Activity Status/Performance Summary (per Business Category); d) Project Activity Status/Performance Summary (per Project Manager). The report searches Project Activities, with option to filter by a range of project launch dates. Option is available to filter by one or more specific activity types. Option is available to group the output by Supplier, by Business Category, or by Project Manager. If the activity is overdue, the number of days overdue is calculated (based on the current date). The report also includes Activities which are not yet Overdue, but where the Due Date is within a specified period from the date the report is run, using a <i>relative</i> date filter. The report can be used to show the name of the last (based on sequence) <i>critical path</i> activity completed and the name of the next (based on sequence) <i>critical path</i> activity due, plus the scheduled start and completion dates.
CR40 Produce Specification Acceptance	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR41 Produce Ingredients Country of Origin	This report template has been released in error. This will be re-released in a future version, please do not use this template.
CR42 Product Requirement Profile / Tender Report - Food	Selected details from product specifications presented as a form type layout. The report may contain one or many (up to 10) specifications. The available filters are based on those of the Specification API.
CR43 Product Requirement Profile / Tender Report - FNF	The report presents a separate <i>page</i> per specification. If a specification contains multiple occurrences of a section, those sections are repeated within the report, with any section names shown.
CR44 Product Requirement Profile / Tender Report - CNF	Note: The core report templates only include sections for the report's specification type. So, for example, the Food report will only contain Food specification sections. If a Food specification also has for example FNF sections, they will not appear in the Food report. The client can create a custom version of the report template to include sections of other specification types in the report if required.
CR45 Product Requirement Profile / Tender Report - Produce	The report includes some static text, which is configured within the RTF template.
CR46 Product Requirement Profile / Tender Report - BWS	

Table A-1 (Cont.) Standard Reports

Report	Description
CR48 Audit/Visit Issue Status	Three versions: a) Audit/Visit Issue Status; b) Audit/Visit Issue Status (per Supplier); c) Audit/Visit Issue Status (per Audit/Visit Type). Similar to CR28 Audits/Visits with Issues Overdue, but includes Issues at any status (per the filter), rather than just Overdue Issues. Option is available to group the output by Supplier or by Audit/Visit Type.
CR49 Audit/Visit Summary	Three versions: a) Audit/Visit Summary; b) Audit/Visit Summary (per Supplier); c) Audit/Visit Summary (per Audit/Visit Type). The report searches for Audits/Visits based on the selected Filters. Issue Details can be included, but overall granularity is by Audit. Option is available to group the output by Supplier or by Audit/Visit Type.
CR50 Audit/Visit Certificate	The report searches for Audits/Visits based on the selected Filters. Non Conformance/Issue details are included, but overall granularity is by Audit. The report presents a page per Audit/Visit. Option is available to group the output by Supplier or by Audit/Visit Type. A maximum of 10 Audits/Visit may be selected per run.
CR53 Nutrient Front of Pack Profile by Product	Based on the Nutrition section, the report searches Food, Produce, and BWS Product Specifications for those meeting a particular nutrition Front of Pack profile, by specifying any of the following: ■ Nutrient and minimum/maximum values - Option available to determine whether values are Per 100g on pack or Per Serving on pack. ■ Nutrient and %RI/DV minimum/maximum values. ■ Front of Pack Score. Originally intended to be pivoted, to show nutrients as columns rather than rows, as the nutrients are configurable per portal, this core report will report the nutrients as rows rather than columns. Clients may build their own <i>pivoted</i> variants of the report using the "Soft-Coded Columns". Can search for multiple nutrients. Can specify All or Any, where All will locate specifications containing all of the specified nutrients with a matching min/max value, and Any will locate specifications that contain any of the specified nutrients with a matching min/max value.
CR54 Label Claims & Statements - Food	Report is based on the OLC Section of the Food Specification, and finds any Specifications which contain the Claims specified in the filters. There will be one report query to accommodate all Food Spec claims. Since most claim fields in the OLC section are tables, including multiple claims and filters in the same report output will result in duplication of rows, therefore users should create separate reports per claim.
CR55 Label Claims & Statements - Formulated Non Food	Report is based on the OLC Section of the Formulated Non Food Specification, and finds any Specifications which contain the Claims specified in the filters. There will be one report query to accommodate all Formulated Non Food Spec claims. Since most claim fields in the OLC section are tables, including multiple claims and filters in the same report output will result in duplication of rows, therefore users should create separate reports per claim.
CR56 Label Claims & Statements - Constructed Non Food	Report is based on the OLC Section of the Constructed Non Food Specification, and finds any Specifications which contain the Claims specified in the filters. There will be one report query to accommodate all Constructed Non Food Spec claims. Since most claim fields in the OLC section are tables, including multiple claims and filters in the same report output will result in duplication of rows, therefore users should create separate reports per claim.

Table A–1 (Cont.) Standard Reports

Report	Description
CR57 Label Claims & Statements - BWS	Report is based on the OLC Section of the BWS Specification, and finds any Specifications which contain the Claims specified in the filters. There will be one report query to accommodate all BWS Spec claims. Since most claim fields in the OLC section are tables, including multiple claims and filters in the same report output will result in duplication of rows, therefore users should create separate reports per claim.
CR58 Project Summary	Four versions: a) Project Summary; b) Project Summary (per Supplier); c) Project Summary (per Business Category); d) Project Summary (per Project Manager). The report searches Projects, based on the selected filters. If the project is overdue, the number of days overdue is calculated (based on the current date).
CR59 Project Activity Summary	The report searches Activities, based on the selected filters. If the Activity is overdue, the number of days overdue is calculated (based on the current date).

Reports Layout and Formatting

This section describes the common rules applied to the core reports, in terms of content layout and formatting. Further information on the styling of the core reports can be found in ["Appendix: Designing RTF Templates"](#).

The following topics are covered in this section:

- [Multiple Rows and Concatenation in Tabular Reports](#)
- [Multi-Specification Section Coverage](#)
- [Linked Records](#)
- [Soft-Coded Columns](#)

Multiple Rows and Concatenation in Tabular Reports

Depending on the level of granularity of the report, occurrences of multiple rows of data will either be output as separate rows, or concatenated into single cells.

For example, if producing a list of specifications that have a particular allergen present, a specification with two size variants (100g and 500g), both of which are manufactured in two different sites, the report would typically contain a row for each variant, each with the details of the two sites concatenated.

A report listing ingredient details where the level of granularity is ingredient, will output a row representing the ingredient in the Recipe table, with its associated details from the Raw Materials table being concatenated within their columns (as the ingredient to raw material relationship is one-to-many). If the level of granularity of the ingredients report was raw material, then a row would be output for each row in the Raw Materials table.

Where columns have contents concatenated, the separator is a comma, and if any item in the list is blank or null, it is replaced with the text Unknown, otherwise blank or null values show as blank in the report.

Suppliers

Suppliers are output as separate columns for code and name. A column containing the concatenated code and name is available to add as an optional additional column, and may be used where a report is grouped by supplier.

Sites

Sites are output as separate columns for code and name. A column containing the concatenated code and name is available to add as an optional additional column, and may be used where a report is grouped by site.

Where a specification has multiple specification level sites (those in the Main Details section), they are concatenated, alpha sorted by code, so that the concatenated codes and names correspond.

Where a specification has multiple specification section level sites (those in the Section Coverage section), they are output as separate rows.

Retailer Contacts

For the core reports, retailer contact details are output as separate columns containing Product Technologist names and Other Contact names. Multiples are concatenated, alpha sorted by name, so that if email or role columns are added the order corresponds.

Additional columns will be available for Contact Email and Contact Role. There may be up to three other retailer contacts configured for use, such as (such as Buyer and Product Development Manager); these columns will be soft-coded (see "[Soft-Coded Columns](#)"). A column will contain Contact Name and Contact Email concatenated.

Business Categories

Business Categories are output as separate columns for each level (the portal may have up to five levels configured). Multiples are concatenated, alpha sorted by the first level, so that the concatenated levels correspond. Reports contain separate columns for Lead and Other business categories, for where a portal is configured to use a separate single lead category and a list of other categories.

A column containing the full path is available to add as an optional additional column, and may be used where a report is to be grouped by business category.

Where Business Category appears as a default field in a core report, it is the full path. Where listed as an additional field that may be added, either the full path or individual levels can be used.

Nutrients

Nutrients are output as separate columns for nutrient description and unit. The values are those that appear in the Nutrition section data entry table. The nutrient's name and abbreviated name are available to add as optional additional columns.

Product Coverage Table

Where a product specification has multiple entries in the product coverage table, a separate row is output for each, with separate columns for product name, product number and quantity.

Multi-Specification Section Coverage

If a specification has multiples of a section, each occurrence that meets the selection criteria will be included.

The section's Section Name & Differentiator, and details of the Sites and/or Products that it covers will be shown in the Section Coverage columns, as shown in the following scenarios:

- Specification has two Recipe sections, each contains the selected ingredient. The section name is concatenated with any differentiator, such as (v2) in this example:

Specification Name	Spec Number	Spec Version	Product Number	Retailer Product Name	Quantity	Site	Site Code	Ingredient	Ingredient Supplier	Country of Origin	Section Coverage Section Name	Section Coverage Sites Covered	Section Coverage Products Covered
Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		
Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		

- Multi-pack specifications may have separate sections for each component, with sections named accordingly:

Product A	1234	1	123478	Multi Pack	500g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Component 1		
Product A	1234	1	123478	Multi Pack	500g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Component 2		

- A multi-site specification has two Recipe sections, one for each of its sites:

Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK		ABC London	
Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK		ABC New York	

This scenario, with multi-site-specific sections, is the only time sites cause the rows to be repeated.

- A multi-size specification has two Recipe sections per variant (the main recipe and an alternative), resulting in a separate row for each:

Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		Large Pack (200g) - 123477 : 99564
Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		Large Pack (200g) - 123477 : 99564
Product A	1234	1	123476	Medium Pack	150g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		Medium Pack (150g) - 123476 : 99564
Product A	1234	1	123476	Medium Pack	150g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		Medium Pack (150g) - 123476 : 99564
Product A	1234	1	123475	Small Pack	100g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		Small Pack (100g) - 123475 : 99564
Product A	1234	1	123475	Small Pack	100g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		Small Pack (100g) - 123475 : 99564

- A multi-size specification has two Recipe sections - one relates to one product variant, the other relates to two:

Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		Large Pack (200g) - 123477 : 99564
Product A	1234	1	123477	Large Pack	200g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		Large Pack (200g) - 123477 : 99564, Medium Pack (150g) - 123476 : 99564
Product A	1234	1	123476	Medium Pack	150g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Main Recipe		Medium Pack (150g) - 123476 : 99564
Product A	1234	1	123476	Medium Pack	150g	ABC London, ABC New York	A0001-001, A0001-002	Dried Egg	Egg Supplies Ltd.	UK	Alternative Recipe (v2)		Large Pack (200g) - 123477 : 99564, Medium Pack (150g) - 123476 : 99564

- The Products Covered column concatenates as: *[product name] ([quantity]) - [product number] : [alternative product number]*. If it contains multiple variants, each set of values is contented with a comma (as in the above example).

Linked Records

Project Activities may be linked to certain other types of record within Brand Compliance, such as an activity to activate a Product Specification or to complete an Audit.

When records that are linked to a project are opened within the application, a Project Links page appears containing a list of any projects the record is linked to. [Table A-2](#) shows the details available for reporting project record links.

Table A-2 Project Activity Linked Records

Linked Record	Fields Available for Reporting
Product Record	Product Code, Product Title, Product Number, Alternative Product Number, Division
Specification	Spec Number, Spec Version, Spec Name
Audit/Visit	Supplier Code, Site Code, Audit Template, Due Date
Scorecard	Supplier Code, Site Code, Scorecard Type, Due Date
Site	Supplier Code, Site Code, Site Name

The link values are concatenated to give a single comma-separated set of values per Activity (or per Project, depending on granularity).

For the Product Record's product coverage details, the record links are multiplied by the number of products covered; this multiplication then gets rolled up so that it appears there are multiple Product Records for a given Activity, for example: Product Record 0001 (100g bag, 100g, 23), Product Record 0001 (25g bag, 25g, 24).

Note: Where a report has Linked Project fields available to be included as additional columns, the available fields are Project Id, Project Name, Activity Id, and Activity Name.

Soft-Coded Columns

The soft-coded columns facility is provided to cater for the reporting of values as columns, where the number of columns is variable based on how the system has been configured. The areas initially covered by soft-coded columns are Nutrients, Dietary and Allergy Questions, and Retailer Contacts.

An example of the use of soft-coded columns would be for a report of product information that has a column for each nutrient, showing each product's value for the nutrients. As the list of nutrients is configurable and dynamic to the type of product, it is not feasible to design a report where the columns are hard-coded for specific nutrients, or to have a variable number of columns to cater for an unlimited number of nutrients. The soft-coded columns are available as a separate set of columns available for selection in the related data sources.

Nutrients

The Nutrition section of the Product Specification provides the nutritional definition of the product, based on the content values per nutrient. The list of nutrients is fully configurable.

For building reports that present the nutrients as dynamic columns, when selecting columns in the Data Source record using the Nutrients query, the soft-coded columns will appear as: *{prefix value} - {spec type} - {question type} - {question}*

When selecting columns in the Data Source record for a query that includes Nutrient values, they will appear as: *{spec type} - {nutrient name} - {unit}* (where {unit} identifies the unit of measure). The soft-coded columns to be provided per Nutrient are as follows (each column appears once per unique Nutrient glossary code):

- Nutrient name
- Unit
- Per 100 value (raw)
- Per serving value (raw)
- Per 100 value (on pack)
- Per serving value (on pack)
- Per 100 value (as prepared)
- Per serving value (as prepared)
- % RI per 100
- % RI per serving
- % RI as prepared
- Reference intake
- Declared
- Source of data

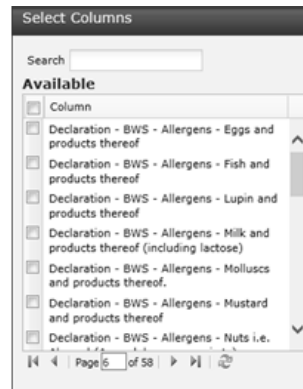
In the XML file generated by the query, the tag names of the nutrient related columns identify the specification type, nutrient and unit, for example:

```
<result>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <SPEC_VERSION>1</SPEC_VERSION>
  <SPEC_TITLE>Breakfast Cereal</SPEC_TITLE>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <FOOD_ENERGY_KJ_PER_100>1422</FOOD_ENERGY_KJ_PER_100>
  <FOOD_ENERGY_KJ_PER_SERV>1706</FOOD_ENERGY_KJ_PER_SERV>
  <FOOD_ENERGY_KJ_DECLARED>1422</FOOD_ENERGY_KJ_DECLARED>
  <FOOD_ENERGY_KCAL_PER_100>337</FOOD_ENERGY_KCAL_PER_100>
  <FOOD_ENERGY_KCAL_PER_SERV>404</FOOD_ENERGY_KCAL_PER_SERV>
  <FOOD_ENERGY_KCAL_DECLARED>337</FOOD_ENERGY_KCAL_DECLARED>
  <FOOD_FAT_G_PER_SERV>5.23</FOOD_FAT_G_PER_SERV>
  <FOOD_FAT_G_PER_SERV>6.28</FOOD_FAT_G_PER_SERV>
  <FOOD_FAT_G_DECLARED>6.28</FOOD_FAT_G_DECLARED>
  ...
</result>
```

Dietary and Allergy Questions

The Dietary and Allergy section (Additional Product Info in the case of non-food) of the Product Specification provides the dietary and allergy definition of the product, based on the responses to sets of predefined questions - such as is the product suitable for vegetarians, or does the product contain egg. The list of questions is fully configurable.

For building reports that present the questions as dynamic columns, when selecting columns in the Data Source record using the Dietary & Allergens Section query, the soft-coded columns will appear as: *{prefix value} - {specification type} - {question type} - {question}* (where {prefix value} identifies the type of field, and {question type} identifies the question as an Allergens, Contains, or Suitable For type). [Figure A-1](#) shows an example.

Figure A-1 Select D&A Question Columns

Where a question has multiple versions, the results will be collated into the same report column (based on the question code, specification type and question type).

The soft-coded columns provided per question are as follows (each column appears once per unique Dietary and Allergy / Additional Product Info glossary code):

- Present in product
- Present in the same plant
- Present on the same line
- Risk of cross contamination
- Formal control program
- Declared
- Label declaration
- Specify declaration
- Source

In addition to the above D&A question fields, the query will return:

- Spec Name
- Spec Number
- Spec Version
- Spec Status
- Spec Type
- Product Coverage - Product Name
- Product Coverage - Product Number
- Product Coverage - Quantity
- Product Coverage - Additional Product No.
- Product Coverage - Division
- Brand
- Business Category
- Lead Business Category
- Supplier Code

- Supplier Name
- Site Code
- Site Name
- Technologist
- Other Contacts
- Section Coverage - Section Name
- Section Coverage - Sites Covered
- Section Coverage - Products Covered

In the XML file generated by the query, the tag names of the question related columns identify the specification type and the question type:

```
<result>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <SPEC_VERSION>1</SPEC_VERSION>
  <SPEC_TITLE>Breakfast Cereal</SPEC_TITLE>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <ALLQ_FOOD_ALLERGENS_GLTEN_DECLARED_VAL>Yes</ALLQ_FOOD_ALLERGENS_GLTEN_
DECLARED_VAL>
  <ALLQ_FOOD_ALLERGENS_GLTEN_PRESENT_IN_PRODUCT>No</ALLQ_FOOD_ALLERGENS_GLTEN_
PRESENT_IN_PRODUCT>
  <ALLQ_FOOD_ALLERGENS_GLTEN_SPECIFY>No</ALLQ_FOOD_ALLERGENS_GLTEN_SPECIFY>
  ...
</result>
```

Retailer Contacts

The Retailer Contacts table within the Main Details section of the Product Specification defines the technologist and other retailer contacts responsible for the specification. The other contact roles are configurable (up to three roles), the core defaults being Buyer and Product Development Manager. Therefore, Technologist is a fixed column and the other contacts are soft-coded columns.

When selecting columns in the Data Source record for a query that includes retailer contacts, the column selector will include columns for:

- Technologist - a single name of the associated Technologist.
- Other Contacts - a concatenated list of the names of the other contacts (in alphabetical sequence).
- Other Contacts - {role} - separate rows for each of the configured other contacts containing the name of the associated contact, where {role} is the contact role description. It is possible that multiple users may be present for the same role.

Figure A–2 shows an example with two other contacts: Buyer and Product Development Manager.

Figure A–2 Select Retailer Contact Columns



The following additional Retailer Contact columns will be available to add when designing a report:

- Technologist Email - a single email address of the associated Technologist.
- Contact Email - a concatenated list of the email addresses of the other contacts (the sequence corresponds to the list of names in the Other Contacts name column).
- Contact Role - a concatenated list of the roles of the other contacts (the sequence corresponds to the list of names in the Other Contacts name column).

In the XML file generated by the query, the tag names of the other contacts identify the role:

```
<result>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <SPEC_VERSION>1</SPEC_VERSION>
  <SPEC_TITLE>Breakfast Cereal</SPEC_TITLE>
  <SPEC_NUMBER>200123</SPEC_NUMBER>
  <TECHNOLOGIST>Jane Doe</TECHNOLOGIST>
  <OTHER_CONTACTS>Joe Bloggs,John Smith</OTHER_CONTACTS>
  <OTHER_CONTACT_BUYER>Joe Bloggs</OTHER_CONTACT_BUYER>
  <OTHER_CONTACT_PRODUCT_DEVELOPMENT_MANAGER>John Smith</OTHER_CONTACT_PRODUCT_
DEVELOPMENT_MANAGER>
  ...
</result>
```

Appendix: Designing RTF Templates

This appendix provides instruction and best practices for the creation of the Rich Text Format (RTF) templates that form the basis of reports.

The recommended method for creating RTF templates is using the *Oracle BI Publisher Template Builder* plug-in for Word. This appendix provides information on installing the plug-in, along with guidance and examples for building templates for different types of reports, using the core Brand Compliance style.

The following topics are covered in this appendix:

- [Types of Reports](#)
- [BI Publisher Template Builder Plug-in for Word](#)
- [Building RTF Templates](#)
- [Formatting Report Contents](#)
- [System Text and Language Translations](#)
- [Style Guidelines](#)

For a summary of the reports supplied as part of the core suite of default core reports, see "[Appendix: Report Layouts](#)". For further details of the layout of each report layout, see *Oracle Retail Brand Compliance Management Cloud Service Report Layouts*.

Types of Reports

There are three distinct types of report in Brand Compliance, referred to as Tabular Reports, Form Reports, and KPIs.

Tabular Reports

This type of report presents data in a tabular format where each row of the table represents an item at the level of the report's granularity - such as a row per supplier, a row per Product specification, or a row per ingredient within the product's recipe.

Form Reports

This type of report presents the data in a form layout, where each page or set of pages represents an item. The pages of the form can contain individual fields as well as tables. Examples of form reports are Specification Reports, where a variety of information about a product is collated within a reporting, and Audit Certificate reports, where details of a supplier's latest audit and any non-conformances are presented as a report.

Figure B-2 Sample of a Form Report Layout

B-2 Oracle Retail Brand Compliance Management Cloud Service Reports User Guide

KPIs

An alternative to a report is a KPI, which measures a single value, typically over a period of time. KPIs can be represented as reports, or as dashboard table or chart. KPI templates are configured in a similar way to report templates.

Figure B–3 Sample of a KPI Dashboard



The creation of a KPI is a two-stage process: the collection of the data and the display of the data:

1. The KPI data is collected by configuring a KPI Template to measure a particular value. For example, to measure the number of audits due for completion, the Audits query would be used, with a filter of audit status and due date, and a count of the unique audit code. The template is scheduled to run on a periodic basis so as to generate the KPI measurements. These measurements are stored in the system as KPI report outputs.
2. The collected data is then reported as a KPI dashboard app on the Home page, either as a table of values, as a line graph, or as a bar chart.

The KPI data may also be presented as report, by scheduling a report design that is based on a template that has the KPI as a data source, with a filter.

The system-delivered KPI data source (the code and description is KPI) is configured with the query set to KPI, and columns for Duration, Ran On, Report Folder, Scheduled By, Value (Number only), Value (Text only), and value (Text or Number as Text). A filter is present which prompts for the report output folder as a runtime value. This data source can be used (or copied and adapted) to schedule a report based on a KPI value; the report folder selected when scheduling the report determines that KPI measurement data to be used in the report.

To schedule a KPI as a report, an RTF report template will need to be designed and loaded to the system as a Report Template record and combined with the KPI data source using a Report Design record which can be scheduled - all in a similar way to how the standard reports are designed and scheduled.

BI Publisher Template Builder Plug-in for Word

The *Oracle BI Publisher plug-in for Word* (also known as *Template Builder*) is an extension of Microsoft Word. It aids the development of RTF documents for use as templates of BI Publisher reports. RTF templates can be created without *Template Builder*, but using it provides an easier way to build, preview, and validate templates, and has the capability of creating XLIFF language translations.

Installing and Launching Template Builder

To install the latest version of *Template Builder* from Oracle:

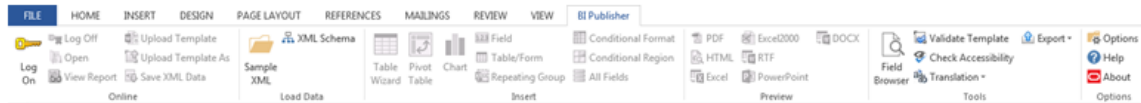
1. Download the executable file from:

<http://www.oracle.com/technetwork/middleware/bi-publisher/downloads/index.html>

2. Accept the License Agreement.
3. Select the link appropriate to your version of Word (if the 64-bit installation has presentation issues, try the 32-bit version).
4. Save and/or run the BI Publisher Desktop exe file.

Once installed, the BI Publisher ribbon appears within Word.

Figure B–4 Word Ribbon with BI Publisher Plug-in Installed



Template Builder Tutorial

The *Template Builder* plug-in comes with a set of tutorials with sample data. The Balance Letter sample demonstrates the creation of a simple form containing a table; the Sales Report sample demonstrates the use of charts.

The *Report Designer's Guide for Oracle Business Intelligence Publisher* user guide provides full details on designing and building BI Publisher reports. The guide can be located by clicking **Start / All Programs / Oracle BI Publisher Desktop / BI Publisher User Guide**.

Balance Letter Sample

This example shows how data is inserted into a form layout using form fields from an XML data file.

1. Open the sample template from the Windows start menu by clicking **Start / All Programs / Oracle BI Publisher Desktop / Samples**, then select RTF Templates / Balance Letter / Balance Letter Start.rtf.

Alternatively, the file can be opened directly from the Samples folder where Template Builder was installed, such as: *C:/Program Files (x86)/Oracle/BI Publisher/BI Publisher Desktop/Template Builder for Word/samples*

2. Load the XML data to be used with the template by clicking **Load Data / Sample XML** within the BI Publisher ribbon.

Locate the Balance.xml file in the same location as the template; click Open. You should receive a *Data loaded successfully* message.

3. Insert the data bookmarks into the form by clicking **Insert / Field** and selecting the required field.

Start by placing the cursor at the <INSERT_ADDRESS_HERE> placeholder in the form and replace it by selecting the Customer Name and related Address fields from the dialog box, clicking **Insert** (or by dragging the field) to add each one individually.

The form should then look like [Figure B–5](#). Continue inserting the AS_OF_DATE, TRX_CURRENCY_CODE, TRX_CURRENCY_CODE, and C_INV_OPEN_BALANCE fields at their placeholders.

Figure B–5 Balance Letter Fields Added

- The form can now be previewed as a PDF file by clicking **Preview / PDF**, or as any of the other formats. The preview presents the form with sample data from the selected XML file inserted into the form fields.

Figure B–6 Balance Letter Preview

- A table of data can now be added to show a list of invoices.

To select the data to show in the table, click **Insert / Table Wizard**, select Table as the report format and click **Next**. Then select the `//ARXCOBLX/G_CUSTOMER/G_CURRENCY/G_INVOICES` data set.

Clicking **Next** presents the list of available fields to appear as column in the table. Individually select Trx Number, Transaction Date, Trans Amount, and Trans Amount Remaining in the left hand pane, clicking **>** to add them to the right hand pane (the order of the selected columns can be changed using the up and down buttons).

Figure B–7 Table Wizard Dialog Box

- Click **Finish** (clicking **Next** will present advanced grouping or sorting options). The table appears in the form per [Figure B–8](#).

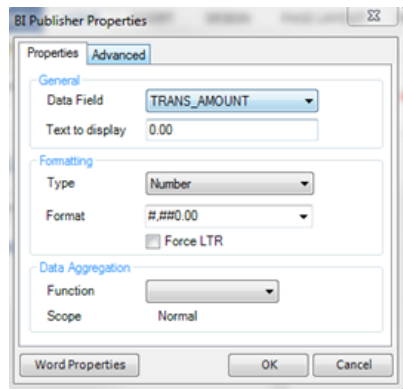
Figure B–8 Balance Letter Table

TRX NUMBER	TRANSACTION DATE	TRANS AMOUNT	TRANS AMOUNT REMAINING
F TRX NUMBER	TRANSACTION DATE	TRANS AMOUNT	TRANS AMOUNT REMAINING E

Note that F and E appear at the start and end of the row respectively to indicate a repeating section. The order of the columns may be edited directly in Word, however the F and E must always remain in the first and last columns.

- The table may be formatted using the Word options for changing font, size, position, bold/underline, color, and so forth. Fields may be further formatted by selecting the field, right-clicking, and selecting BI Publisher / Properties. The Properties dialog box allows the field to be specified as a Text, Number, or Date type (which can show the Current Date or Current Time), with formatting options appropriate to the field type.

Set the TRANS_AMOUNT column to be a Number with ###0.00 formatting, appropriate to showing the value as a currency amount. A default value can be entered in the Text to display field.

Figure B–9 BI Publisher Properties Dialog Box

- Click **OK** to apply the formatting. The field name in the table will be replaced with the formatted value, but can be seen in the Properties dialog box, or in the column heading. The column heading may be edited to be more descriptive.

Set the Transaction Date, Transaction Amount, and Transaction Amount Remaining columns to the appropriate data type, with formatting, and edit the column headings, for the table to appear in the form per [Figure B–10](#).

Figure B–10 Balance Letter Properties Dialog Box

Transaction Number	Transaction Date	Transaction Amount	Transaction Amount Remaining
F TRX NUMBER		0.00	0.00 E

- Preview the form again to see the table, populated with data, and then save a local copy of the completed RTF template.

Figure B–11 Balance Letter Preview

Dear Sirs/Madam,

According to our records, as of 01-JAN-08, we show the following open balances.

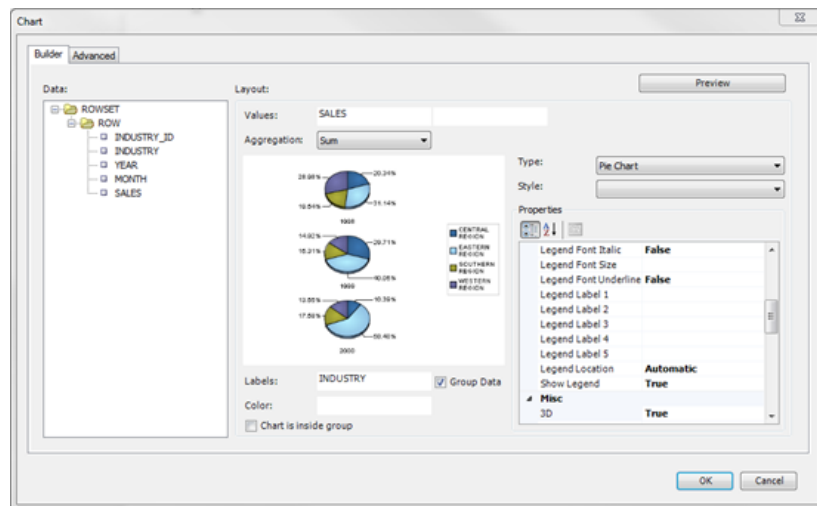
Your CAD balance is 31500, made up as follows:

Transaction Number	Transaction Date	Transaction Amount	Transaction Amount Remaining
502444	06-DEC-07	19,125.00	19,125.00
502445	06-DEC-07	12,375.00	12,375.00
10019903	18-NOV-07	132,733.84	132,733.84
10020178	20-NOV-07	71,577.42	71,577.42
10020219	21-NOV-07	89,344.81	89,344.81
502394	22-NOV-07	11,250.00	11,250.00
10020280	24-NOV-07	128,654.96	128,654.96

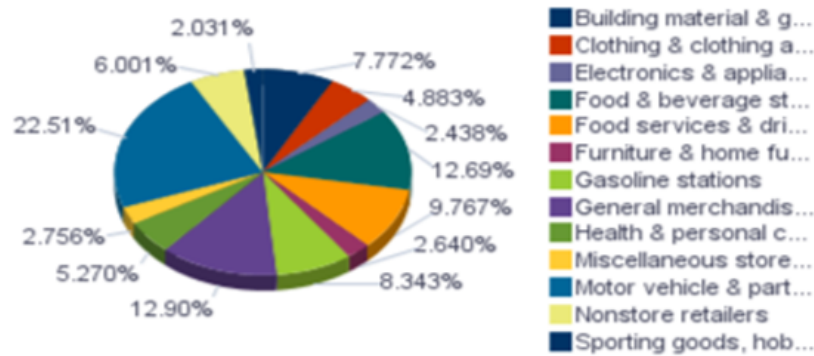
Sales Report Sample

This example shows how tabular data can be presented as a chart within a report template.

1. Open a new Word document and load the XML data to be used by clicking **Load Data / Sample XML** within the BI Publisher ribbon.
2. Locate the RetailSales.xml file from RTF Templates / Sales Report / Retail Sales.rtf in the same location as Step 1.
3. Click **Open**. You should receive a *Data loaded successfully* message.
4. Now select **Insert / Chart** to open the Chart dialog box.

Figure B–12 Chart Dialog Box

5. Drag Sales in the left hand pane to the Values field to set data to be shown, and drag Industry to the Labels field to set how the values are to be accumulated.
6. Click **Preview** to see how the chart will be presented.
7. Click **OK**. The chart will be inserted into the form per [Figure B–13](#).

Figure B-13 Sales Report Chart

The size of the chart can be changed by resizing the placeholder image.

8. The form can now be previewed as a PDF file by clicking **Preview / PDF**, or as any of the other formats.
9. Save a local copy of the completed RTF template.

Building RTF Templates

This section provides guidance on building RTF report templates.

The key steps are to first decide the type of report to be built (whether it is a table of a form based layout, see "[Types of Reports](#)"), to locate the data source for the report, then to create the RTF file, build the content, apply formatting and styling, and finally to preview the finished report.

Further details on designing and building report templates can be found in the *Oracle Business Intelligence Publisher Report Designer's Guide* and *Report Designer's Guide for Oracle Business Intelligence Publisher* documents, located at <https://docs.oracle.com>.

Locating the Data Source

Before creating a report template, you must locate the data source in the form of an XML file. This provides the data structure of the report.

The XML files are downloaded from their Report Data Source records (see "[Data Sources](#)"). Open the data source record and use the Download Data for RTF Template Design action to save the file locally for use when building the template.

Creating an RTF Template for a Table Report

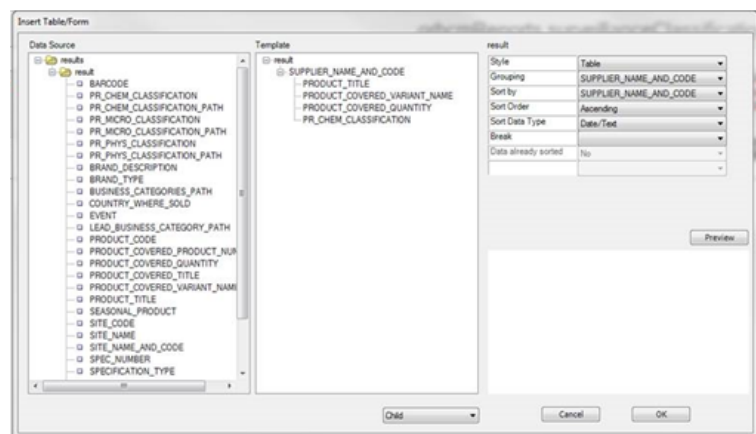
The following instructions are for creating an RTF template for a table report using Template Builder. For details on installing the plug-in, see "[Installing and Launching Template Builder](#)".

1. Create a new Word document and click **Sample XML** in the BI Publisher ribbon.
An alternative is to copy an existing RTF template and amend accordingly.
2. Select the data source XML file and click **OK** to load the data definition. The *Data loaded successfully* message is shown.
3. Set the page size to suit the report, typically A3 landscape with narrow margins.

If necessary, change to a custom page size, such as 55cm x 30cm under Page Layout / Page Setup / Paper changing the paper size to *Custom size* and setting the width and height as required (the maximum is 55).

4. Add a report title in the document header, the current date and time, and page number functions in the document footer, along with an identifier for the report.
5. Insert the table in the body of the document by clicking **Table/Form**. The Insert Table/Form dialog box opens.

Figure B–14 Insert Table/Form Dialog Box

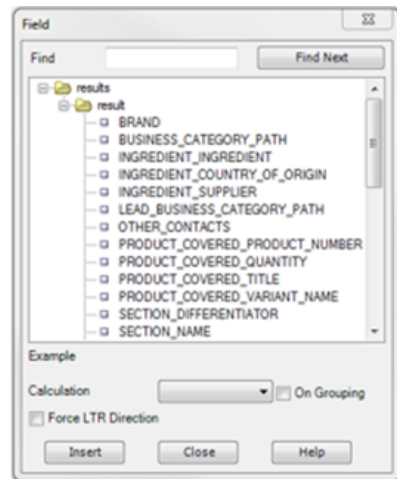


Note: An alternative method for adding a table is to click **Table Wizard** and follow the steps to create the table, or use the regular Word options to manually insert an empty table, click **Field Browser** to insert fields in columns individually, highlight the row, and click **Repeating Group**.

If the template has been created by copying an existing RTF file, insert a new temporary table beneath the existing table, then copy the contents of the columns into the existing table before removing the temporary table.

6. Drag the *result* node from the Data Source pane to the Template pane, selecting the Drop Single Node option when prompted. Repeat for the other fields to appear as columns in the table.

Alternatively, choose the Drop all nodes to copy all fields across and then drag back any that are not required. Fields can be individually added/removed later if necessary by clicking **Field Browser**.

Figure B–15 Field Browser Dialog Box

7. Set any grouping and sort sequence by clicking the *result* node and setting the Grouping and Sort by options with the appropriate columns.

If grouping is required, select the field to group by in the right-hand properties box. Also, set its sort sequence and data type. Leave the Break option blank. If secondary sorting is required, select the grouping field, and in the right-hand properties box, select the next field to be sorted, the sort sequence and data type. Up to four levels of sorting can be set.

If sorting is required in a non-grouped table, or additional levels of sorting are required in a grouped table, you can apply the sorting after the table has been applied.

If adding grouping to a report that already contains a table (for the above method of adding a temporarily table), add the grouped column plus others then copy the first and last columns to the main table and complete the other columns.

8. Click **OK** to create the table.

Markers are inserted in columns, such as F and E, to indicate the first and last columns for a repeating group, and G to indicate a grouping column.

9. If a count is required at the end of the report, select **Insert / Field**, choose the field, then Count as the Calculation. When the count is inserted, double-click and set the Format to 0, to show as an integer. Add a field label prefix to the count. By default, only the number of data row occurrences are counted, not the distinct occurrences or number of groups.
10. If a chart is required, click **Insert / Chart** and then select the values and labels by dragging from the Data list. Chose the chart type and any other formatting, then add a label.
11. Click **Tools / Validate Template** to check for errors.
12. Apply formatting and styling, such as resizing or rearranging the table columns as required - including replacing the headings and other fixed text with links to the Brand Compliance system text, to allow for the dynamic translation for supported languages.

Further details on some of the options available for formatting and styling can be found in ["Formatting Report Contents"](#), ["System Text and Language Translations"](#), and ["Style Guidelines"](#).

13. Save the document as a Rich Text Format type.
14. Preview the report by clicking **Preview** and then choose a format. If system text keys are used, the preview does not look up the column headings and fixed text, so the system text keys will continue to show.

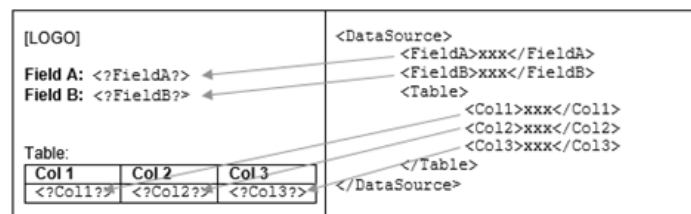
Creating an RTF Template for a Form Report

An RTF template for a form report is created in the same way as described in ["Creating an RTF Template for a Table Report"](#), with the following additional considerations:

- The page size and orientation will typically be A4 portrait rather than A3 landscape.
- The report body may contain a combination of individual fields (with their field labels), small tables, and static text.
- Individual fields can be organized by manually creating a two column table (with no borders), with the fields added individually to the right hand columns by clicking **Insert / Field**, with the field labels placed in the adjacent left hand column.

Figure B-16 shows how data elements in the XML file are mapped to placeholders in the RTF template when the report is run.

Figure B-16 XML Data to RTF Template Mapping



- If the report is to contain multiple records, the form will need to be specified as a repeating group, by selecting the body of the report and clicking **Repeating Group**.

Formatting Report Contents

This section describes some of the formation options that have been used in the suite of core reports, with guidance on their usage.

The positioning of data within the report template is achieved by bookmarking. The design of the report layout can include formatting of text and tables, and the insertion of images and charts. Conditional formatting and logic may also be included.

General Considerations

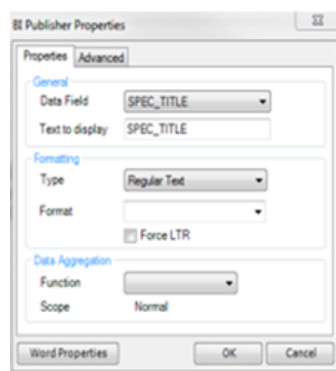
1. For information on the core default style and catering for language translations, see ["Formatting Report Contents"](#), ["System Text and Language Translations"](#), and ["Style Guidelines"](#).
2. Use the standard Word formatting options for applying formatting such as font styles, alignment, table borders, page headers/footers, page numbering, date, and time.
3. Set table header rows to repeat on page break.

4. Place report headers and footers and record counts within a single table cell (with no borders), otherwise, issues can occur with system text being derived and extraneous columns being added in Excel format.
5. Where a report includes details of a record being linked to a Project, the Linked Project fields available to be included as columns are Project Id, Project Name, Activity Id, and Activity Name.
6. Data from the API data sources has namespace markup (ns0 / ns1 / ns2 prefix tags) automatically removed so it should not be necessary for any additional coding in the RTF templates.

BI Publisher Properties

- Right-click on field and select BI Publisher / Properties to apply data type and formatting for numbers and dates, and for applying data aggregation functions.

Figure B-17 BI Publisher Properties Dialog Box



- The default date format used is dd-mmm-yy (for example 2-Jun-18).
- The Advanced tab in the Properties dialog box can be used to apply more advanced functions to data field location, formatting, and aggregation.

Figure B-18 BI Publisher Advanced Properties Dialog Box



- When specifying the location of a data field, if the field name is not unique or the field is a column within a table, it may be necessary to specify the full path or a partial path. Notation can also be used to specify a relative path. Fields that have language translations may be contained within a localeData element.

Examples of specifying the varying levels of path for a description field are as follows:

Full Path:

```
<?//dto/specificationSectionDetail/specificationSectionFoodMainDetailsSection/brand/labelingCopySection/nutritionIconDetail/icon/localeData/>description?>
```

Partial Path:

```
<?specificationSectionFoodMainDetailsSection/brand/localeData/description?>
```

Locate Data Element:

```
<?brand/localeData/description?>
<?../brand/localeData/description?>
<?../brand/localeData/description?>
```

Data Element Only:

```
<?description?>
```

The meaning of the dot and slash notation is as follows (see the *Oracle Business Intelligence Publisher Report Designer's Guide* for full details):

/Absolute (separates child elements)

//Root (all elements)

.Current node

..Parent node

Conditional Formatting

- To apply conditional formatting, select the field, label, or table and click **Conditional Format**. Open the Properties dialog box to apply the conditions and formatting.

Repeating Groups

- The Repeating Groups facility is for constructing tables and form reports where more than one record may be present in the report. Individual fields that contain multiple values must also be defined as a repeating group for all values to be shown.
- To create a repeating group, select the field, table, row, or the block of content to be repeated and click **Repeating Group**.
- Select Absolute Path if the XML contains the same element names within different parent elements.
- Set any grouping or sorting requirements and then click **OK**.
- Repeating groups are shown between each (F) and end (E) markers.
- Once the repeating group has been applied, it can be amended by right-clicking the F or G marker and opening the BI Publisher Properties dialog box.

The Advanced tab contains the code equivalent of the rules, which can also be edited.

- Product Specifications may have multiple occurrences of a section, in which case a section name is entered in the application to identify them. If this is to be included in the report, it is a name element, located within specificationSectionDetail. The path must be specified in the properties box as: <? ../name?>.

Grouping

- Grouping is used to categorize a table within a report so that rows with a common value appear together. Grouping is applied when the table is created using the Table Wizard or Table/Form options.

- In the Table Wizard, there are grouping options for Group Left and Group Above. Group Left creates a nested table. Group Above creates a new table for each new value for the grouping field, displaying the value of the group by field as the table title.
- The grouping is contained within G and E markers.
- When selecting an element to group by, the report is sorted by the grouping. Checking the *Data already sorted* option improves performance.

Sorting

- The rules for the column sorting sequence of tables is applied when the table is created using the Table Wizard or Table/Form options. Up to four levels can be sorted.
- Select the appropriate data type. Note that alpha 12 will come before 2; numeric 2 will come before 12; numeric will come before alpha. The default BI Publisher sort sequence orders all upper case before lower case.

To override the default sort sequence, so that uppercase and lowercase appear together:

1. Open the BI Publisher Properties dialog box for the column that applies the sorting.
2. In the Advanced tab, edit the field name as per this example:

Current Code: `<?sort:SPEC_TITLE; 'ascending'; data-type='text' ?>`

New Code:

```
<?sort:(xdoxslt:convert_case(SPEC_TITLE, 'UPPER')) ; 'ascending'; data-type='text' ?>
```

Note: If the field is part of a group, replace the `current-group() / <column name>` part of the statement with `(xdoxslt:convert_case(current-group() / <column name>, 'UPPER'))`. For example:

Current Code:

```
<?sort:current-group() / SCORECARD_
TEMPLATE; 'ascending'; data-type='text' ?>
```

Updated Code:

```
<?sort:(xdoxslt:convert_case(current-group() / SCORECARD_
TEMPLATE, 'UPPER')) ; 'ascending'; data-type='text' ?>
```

3. Click **OK** to close the Properties dialog box.

This will apply a sort sequence of numeric / lowercase / uppercase. For example, changing the default sequence of: 9876; A0001; R1234; a0001, r9001 to: 9876; a0001; A0001; R1234; r9001.

- If sorting by all four columns and if the XML tag names are excessively long, it is possible to exceed the maximum permitted 393 characters.

Counts

- The Count calculation counts the number of occurrences of the field within a group.
- If a count is required at the end of the report for a distinct number rather than total count, use for example:

```
<?count(xdoxslt:distinct_values(PRODUCT_COVERED_PRODUCT_NUMBER)) ?>
```

- To add a total to a grouping, create the grouping and add the field, setting as a calculated value, check the On Grouping option, and then paste into the grouped cell.

Charts

- To add a chart to a report, click **Chart** and set the following parameters:
 - *Values* - the data values to measure (may be multiples, depending on the chart type).
Combination Graph, Scatter Graph, Bubble Graph, and Stock Graph allow for multiple values.
Can choose to calculate sum count or average values.
 - *Labels* - the data elements for which the values are to be charted.
- Can select to group the label elements before displaying in the chart (for example, to consolidate values by month or year).
- By default, the data will be grouped by the Value element and aggregated by Sum. Deselecting the Group Data checkbox shows each occurrence of the Value element and aggregation functions will not be available.
- Can choose to insert a chart within a group so that it only contains data for the group.

Boolean Fields and Conditional Regions

- Boolean fields are stored in the database as true or false values. When included in reports, the values typically are required to show as Yes or No. This is achieved by applying conditional formatting, where the value is hidden unless the condition is true.
 1. In the template, add two fields: orbcmReports.true and orbcmReports.false. Use font size 9.5 and avoid any whitespace.
 2. Select each individually and click **Conditional Region**.
 3. In the BI Publisher Properties dialog box, set the data type to Date/Text and the Data field values to *Equal to true* for orbcmReports.true and *Equal to false* for orbcmReports.false.
The fields are contained within C and EC markers. Double-clicking the C marker (or right-clicking and opening the BI Publisher Properties dialog box) allows the properties to be edited.
 4. Further conditional logic can be applied if required, in the Advanced tab, for example:

```
<?xdofx:replace(seasonalProduct, 'false', 'No') ?>
<?xdofx:decode(seasonalProduct, 'true', 'Yes', 'false', 'No', '') ?>
<?xdofx:decode(seasonalProduct, 'true', orbcmReports.true, 'false', orbcmReport
```

```
s.false, '')?>
```

Editable Text Selector and Enumeration Fields

- Editable Text Selectors are the selectors in Brand Compliance that allow glossary selections to be made with variable content inserted. They allow for the consistent wording of statements without the need to create numerous glossary entries.

For example, a statement *Caught in {c}*, *packaged in {c}* could be configured in the glossary, then when selected for use in the Specification, the user substitutes {c} with the relevant country. The statement and parameter values are stored separately in the database and in the Specification API XML data. In order for these statements to be readable in reports, an additional packCopyText element contains the fully formed statement.

- Enumerations are fields that are selected from a set of predefined options which are not configurable glossaries, for example Yes/No or Day/Month/Year.

In the XML returned from the APIs for Audit and Specifications, enumerations have an element for the code, an element for the description (in the selected language) and an element for the description in the specification's pack copy language, for example:

```
<specType>FOOD</specType>
<specTypeDescription>Food</specTypeDescription>
<specTypePackCopyDescription>Food</specTypePackCopyDescription>
```

HTML Markup

- For fields that contain HTML markup, such as the Ingredients List, add the `html2fo:` prefix to the path, for example:


```
<?html2fo:productSpecificationFullDTO/specificationSectionDetail/specificationSectionFoodRecipeAndRawMaterialsSection/businessLanguageIngredientsList?>
```

- If a text field contains formatting such as bullet points, the formatting will only render if the XML data is wrapped in a CDATA tag with the necessary formatting tags. In the RTF template, the path must also include the `?html2fo` tag (as above).

If coded appropriately in the XML, the HTML formatting features supported by BI Publisher are as follows (see the *Oracle Business Intelligence Publisher Report Designer's Guide* for full details):

- Hyperlinks
- Lists
- Bulleted and ordered lists
- Paragraph
- Font style (bold, italic, plain, underline, subscript, superscript, strike-through)
- Font size and family
- Background and foreground colors
- Paragraph alignment (center, left, right, and justify) and indent

Pivot Tables

- Pivot tables represent data within multiple categorizations, such as totals per area, summarized by year and by month.

Figure B–19 Example BI Publisher Pivot Table

		Building material & garden eq. & supplies dealers	Clothing & clothing accessories stores	Electronics & appliance stores	Food services & drinking places	Food & beverage stores	Furniture & home furnishings stores
2006		48,531.00	31,528.00	15,472.00	61,967.00	81,303.00	17,973.00
	February	23,146.00	15,511.00	7,710.00	30,803.00	40,449.00	8,418.00
	March	25,385.00	15,917.00	7,762.00	31,164.00	40,854.00	8,555.00
2007		79,625.00	48,991.00	24,726.00	99,088.00	127,991.00	26,468.00
	February	26,369.00	16,497.00	8,320.00	33,239.00	42,723.00	8,859.00
	January	26,480.00	16,316.00	8,114.00	32,952.00	42,553.00	8,805.00
	March	26,776.00	16,178.00	8,292.00	32,997.00	42,715.00	8,804.00
		128,156.00	80,519.00	40,198.00	161,055.00	209,294.00	43,541.00

- To add a pivot table, click **Insert / Pivot Table** and drag the required categorization or grouping data elements from the left pane to the right-hand Layout pane.
- Set the type to Sum or Count and click **OK** to add the table.
- Apply any formatting or styling required. Ensure the column widths are sufficient, otherwise the data will be truncated.

Considerations for Excel

When designing RTF templates for reports that may have the output opened as an Excel workbook, the following points should be considered:

- The data source XML file must not contain whitespace padding, otherwise extraneous blank rows can appear in Excel.
- The report header and footer areas that contain the report title, run date, reference, and page number must be contained within a single cell. The presence of multiple columns results in extraneous columns appearing in Excel. The same applies to chart sub-headings.
- The data row of a table must not contain extraneous spaces or carriage returns where the field is inserted (or between multiple fields), otherwise extraneous blank rows or columns can appear in Excel.

The Show/Hide ¶ option can be used in Word to check for spaces and carriage returns when editing the RTF template.

- When adding columns to a table, if the table exceeds the page width to the right, it can result in extraneous blank rows or columns appearing in Excel. Avoid this by containing the table in a single cell (with no borders). The same can occur when copying tables from one RTF template to another.

System Text and Language Translations

This section describes how the Brand Compliance system text facility is used to present fixed text within reports, and the translation of report content for the portal's supported languages, covering the following topics:

- [Translation of Report Content](#)
- [Configuring System Text and XLIFF for Reports](#)
- [Configuring System Text in RTF Report Templates](#)

Translation of Report Content

When a report is run, the output (field labels, column headings, and data) is generated in the language specified by the locale of the user that scheduled the report.

In order to translate system text within the generated reports, the RTF report template must contain a means of linking the field label or column heading to a Brand Compliance System Text item. The language translations are achieved using an XLIFF file, which is generated in Brand Compliance, and is then bound to a report's RTF template, providing the necessary references.

The translation is achieved using the system text key generated by Brand Compliance. The keys are in a human-readable form (in English), so the report designer can identify the labels within the RTF at a glance. This approach also caters for where a portal has overridden the core system text to use client-specific terminology.

When a report is run, the XLIFF file applies the language translations. The labels and column headings in the report are automatically translated to the user's language, with the usual fall-back to the base language where translations are not present. The translation of data within the report, for fields that are derived from a glossary, are also automatically translated to the user's language, with the fall-back rules applied.

Configuring System Text and XLIFF for Reports

When a report administrator edits the RTF report template, rather than hard-coding the text for field labels and column headings, keys to items of System Text are used. The keys are substituted with translations appropriate to the user when the report runs. The process for locating the appropriate system text keys, and creating those that do not exist is as follows:

- A separate area of system text is provided specifically for use in reports, with a prefix of *orbcmReports*.
- Whenever the Brand Compliance System Text is updated, a new XLIFF file containing the translations of fixed text used in reports is automatically generated (a separate file for each of the portal's supported languages).
- The XLIFF file is downloadable from the System Text Admin area (by system administrators) and from the Reporting Admin area (by report administrators). The file contains the existing system text used in reports.
- The report designer refers to the XLIFF file to locate the appropriate system text key and uses that rather than fixed text in the RTF template. The XLIFF file can be viewed using a text editor, such as *Notepad++*. The system text keys are located by simply searching for the relevant text.

An example of a simple XLIFF file, where the source element is field label and the target element is the system text is as follows:

```
<xliff version='1.0'>
<file source-language='en-GB' target-language='en-GB' datatype='biprtf'>
  <header/>
  <body>
    <trans-unit id="orbcmReports.activeIngredients">
      <source>orbcmReports.activeIngredients</source>
      <target>ACTIVE INGREDIENTS:</target>
    </trans-unit>
    <trans-unit id="orbcmReports.additionalConsumerInformation">
      <source>orbcmReports.additionalConsumerInformation</source>
      <target>ADDITIONAL CONSUMER INFORMATION:</target>
    </trans-unit>
  </body>
</file>
</xliff>
```

- If a label or piece of text to appear in the report cannot be found in the XLIFF, it must be added to the System Text area for Reports in the Admin area. This can be done by a user with the System Text Administrator authority profile. When the system text is updated, new XLIFF files are automatically generated.
- See ["Configuring System Text in RTF Report Templates"](#) for further details, including dealing with multiple occurrences of a system text label within a report, where a separate system text key is required for each occurrence.
- When the template is complete and the report is run, the system combines the XLIFF and RTF files to derive the translations for the required language.

Configuring System Text in RTF Report Templates

In order to enable the translation of a report's field labels and column headings into the language of the user's locale, the RTF report template uses placeholders instead of hard-coding the text. The placeholder is the code to an item of configurable system text.

For example, a table that shows a Site's Certificates, such as:

Type	Certificate No.
EC Licence Number	123456
Organic Certification	987654

May be coded in the RTF template as:

<code>orbcmReports.type</code>	<code>orbcmReports.certificateNo</code>
F description	referenceCertNo E

Where `orbcmReports.type` is the key to the system text for the Type label, and `orbcmReports.certificateNo` is the key for the Certificate No. label.

System Text Translations

When coded accordingly, the report run by an English user would present the table as:

As Sold

Attribute	Red	Amber	Green

And run by a French user would present the table as:

Non préparé

Attribut	Rouge	Ambre	Vert

Duplicated Text

If the RTF template contains multiple occurrences of item of text, such as Product Attributes for As Sold and As Consumed values, each with Red, Amber, and Green

column headings, the placeholders must contain unique values, typically by appending an incrementing number, such as:

orbcmReports.asSold

orbcmReports.attr	orbcmReports.red	orbcmReports.amber	orbcmReports.green
F description	red	amber	green E

orbcmReports.asConsumed

orbcmReports.attr_2	orbcmReports.red_2	orbcmReports.amber_2	orbcmReports.green_2
F description	red	amber	green E

If a placeholder is not unique, when the report is run, the first occurrence of the placeholder will show the appropriate system text, but subsequent occurrences will just show the placeholder name, such as:

As Sold

Attribute	Red	Amber	green

As Consumed

orbcmReports.attr_2	orbcmReports.red_2	orbcmReports.amber_2	orbcmReports.green_2

Note: An alternative to using an incrementing numeric suffix as above, is to use a descriptive differentiator to form a unique placeholder, such as orbcmReports.asSoldRed and orbcmReports.asConsumedRed.

If the portal operates just a single language and there is no requirement for translations, the fixed text could simply be hard-coded, however the use of placeholders is recommended, as it allows for changes to system text, and the introduction of languages without the need to rebuild report templates.

If a new item of system text needs to be created to cater for a duplicate reference, the process described in ["Configuring System Text and XLIFF for Reports"](#) is used.

API Data Source XML Contents

In the XML returned from the APIs for Audit and Specifications, fields that can have language translations have their value returned in a localeData element, in the language of the user who scheduled the report.

Certain fields within the Product Specification allow text values to be entered both in the user's language and in the language of the data that will appear on pack. In this

case, the data that has alternative pack copy language translations is contained in a packCopyLocaleData element.

Style Guidelines

This section describes the style standards used for the Brand Compliance core reports.

Header	A single row containing the report title, inserted in the report header area. Background color: 245-245-245 Title: Albany WT, 18, centre, color: 32-32-32
Sub Heading	Albany WT, 12, left, color: 32-32-32
Table	Column Headings: Albany WT, 11 (or 9 if many columns), left (or center if spanned), text color: 80-80-80, background color: 245-245-245 Data Rows: Albany WT, 9 (or 8 if many columns), top/left, borders: inside only text color: 112-112-112, border color: 230-230-230
Count/Totals	Label: Albany WT, 11, left, color: 32-32-32 Value: Albany WT, 9, left, color: 112-112-112
Chart	Heading: Albany WT, 11, left, color: 80-80-80, background color: 245-245-245
Body	Field Label: Albany WT 11, left, color: 80-80-80 Field: Albany WT 9, left, color: 112-112-112 Table Heading: Albany WT, 11, bold, left, color: 32-32-32 Table Column Headings: per Table Table Data Rows: per Table Section Heading: per Sub Heading Fixed Text Table: per Table, but vertical
Footer	A single row, inserted in the report footer area. Background color: 245-245-245 Date & Time: Current date and time: Albany WT, 7, left, format: DD/MM/YYYY HH:MM update automatically, color: 112-112-112 Report Ref: Albany WT, 7, color: 112-112-112 The core reports use a CR (core report report) prefix Page Number: Page number: Albany WT, 7, right, format: X / Y, color: 112-112-112

Appendix: Permissions

This appendix summarizes the rules that are applied to control users' access to the reporting facility and the data that may be reported on.

1. Only retailer users have access to the Reports module. Supplier users cannot configure, schedule, or view reports within the system. If a retailer user wishes to share a report with a supplier user or other individual, the report output can be manually forwarded as an email attachment.
2. Access to the Reports module is controlled by granting the Advanced Reporting Administrator, Advanced Reporting User, and Advanced Reporting Reader authority profiles to retailer users.
3. Advanced Reporting Administrators can:
 - Configure the data sources, templates, and designs for reports and KPIs.
 - Configure the report output folders where the generated reports are stored.
 - Schedule any report, and maintain the schedule details of reports scheduled by other users.
 - View the log of all scheduled reports, and cancel them.
 - View and delete all report outputs.
 - Configure and view KPI dashboards.
 - Run data extracts of Suppliers, Sites, Product Records, and Product Specifications.
4. Advanced Reporting Users can:
 - Submit, amend, or delete the schedules for any report.
 - Schedule any report, and maintain the schedule details of those they have scheduled.
 - View the log of reports they have scheduled, and cancel them.
 - View reports they have scheduled or are a designated recipient of, either by name or by role.
 - Delete reports they have scheduled.
 - View KPI dashboards they are designated a recipient of, either by name or by role.
5. Advanced Reporting Readers can:
 - View reports they are a designated recipient of, either by name or by job role.

-
6. If the portal is operating the Enhanced Access Control (EAC) permissions feature, where retailer users can be restricted to specific suppliers, users may only access report if they are aligned with equivalent EAC areas as the user who scheduled the report.
 7. The report schedule specifies the users who are permitted to view the report. The recipients receive an email link to the report when it is generated (the report output is not sent in email) if they have been granted access to that report (either explicitly by name, or implicitly by user role). Reports they are not a recipient of will not appear in their list of reports.

Note: It is possible for a Report Administrator to configure a report that contains data their permissions would not normally permit them to when accessing Brand Compliance by the UI.

When assigning the recipients of a report, a warning is issued if their permissions would not usually allow them access to the data, however it does not prevent the report being scheduled. It is the responsibility of the administrator to grant access rights to the appropriate users.

8. An external system can electronically retrieve the content of a report using the Report Attachments web service API if an External System account has been configured. The Report Attachment Service and Endpoint permissions control the access; the external system must be explicitly named as a recipient of the report. Details of the Report Attachments API can be found in the *Oracle Retail Brand Compliance Management Cloud Service Implementation Guide*.

Glossary

API

Application Program Interface, a means of extracting data for use in another application or process. The Brand Compliance Audit & Visit and Product Specification APIs are used in reporting as a data source for certain reports.

CSV

Comma-Separated Value, the file format used for the Brand Compliance data extracts.

data extract

An alternative method of extracting data. Can be used to create CSV files containing the full contents of Supplier, Site, Product Record, or Product Specification records.

EAC

Enhanced Access Control, the facility for applying an additional level of permissions in Brand Compliance, where retailer users are assigned to specific suppliers and their data using EAC Areas. If EAC is enabled, the additional level of permission is applied to the generation of reports.

KPI

Key Performance Indicator, an aspect of reporting typically used to measure the accumulation of a single value over a period of time. KPIs can be presented as tables or charts within apps on the Home page.

PDF

Portable Document Format, one of the supported report output formats.

report data source

Exposes the Brand Compliance data for use in reports. The data sources are predefined. The data is extracted automatically within the application using SQL queries and APIs.

report design

Combines a Data Source with a Report Template to form a schedulable report.

report output

The actual report output. May be PDF, Excel, RTF, or HTML format.

report schedule

Controls the execution of a report, either as a single run or on a recurring schedule. Defines the type of output and the recipients.

report template

Templates that define the layout and data content of a report.

RTF

Rich Text Format, one of the supported report output formats.

standard reports

The suite of Brand Compliance core reports provided. The core reports typically present a tabular listing of results. Some form-based reports present a paginated form comprised of tables and individual fields.

XLS

The data format of Microsoft Excel workbooks, one of the supported report output formats.

XML

eXtensible Markup Language, the data format of the report data sources.