

Crystal Reports XI

Chart Changes from Crystal Reports 8.5, 9 and 10 to XI

Overview

Crystal Reports enables you to include several types of charts in your reports. This technical brief lists some of the new features of the charting tool, as well as some behaviors that may be encountered when migrating charts to Crystal Reports XI. This document is intended for all users, and is designed to assist you in migrating to Crystal Reports XI.

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Introduction

There are behavior changes in the charting tool when migrating charts from Crystal Reports 8.5, 9, or 10 to Crystal Reports XI. Also, a list of new chart types is presented in this document.

Crystal Reports Chart Migration Behaviors

Charting on Formulas with WhilePrintingRecords Evaluation Time

In Crystal Reports 8.5 it is possible to create a chart based on print-time formulas, including Running Totals. Print-time formulas are evaluated during the **WhilePrintingRecords** evaluation time. In Crystal Reports 9 and later it is not possible to create a chart that is directly based on a print-time formula.

A chart that is based on a print time formula may not function correctly when the report is migrated to Crystal Reports XI. While you cannot create a chart directly off print-time formulas, you can indirectly do so by using the technique described in the document, [cr9 charting print time formulas.pdf](#). This technique consists of four parts:

- Formatting the report
- Creating running total formulas for the **On change of** and **Show value(s)** values
- Creating and linking a subreport
- Inserting a chart in the subreport

Chart Type May Change When Opening in Crystal Reports XI

In rare cases, some charts created in Crystal Reports 8.5 or 9 may change to a different chart type when opening the report in Crystal Reports XI. This behavior is report specific, and has not been reproduced by Business Objects Customer Support. To work around this behavior, refer to article c2018139.

- [c2018139 - Chart type changes when opening 8.5 or 9 report in Crystal Reports XI](#)

Crystal Reports 10 to XI:

Currently, there are no known issues when migrating charts from Crystal Reports 10 to Crystal Reports XI.

Changes in the Charting Tool

New Chart Types

New chart types have now been added in Crystal Reports XI, 10, and 9.

Crystal Reports 9

Numeric Axis Chart

A Numeric Axis chart is a bar, line, or area chart that uses a numeric field date/time field as its **On change of** field. Numeric Axis charts provide a way of scaling your X-axis values, thus creating a true numeric X-axis or a true date/time X-axis.

Gauge Chart

A Gauge chart presents values graphically as points on a gauge. Gauge charts, like pie charts, are typically used for one group of data. For example, the percentage of sales for the entire inventory.

Gantt Chart

A Gantt chart is a horizontal bar chart often used to provide a graphical illustration of a schedule. The horizontal axis shows a time span, while the vertical axis shows a series of tasks or events.

Horizontal bars on the chart represent event sequences and time spans for each item on the vertical axis. You should use only date fields when creating a Gantt chart. The field you choose for the data axis should be set to **For Each Record**, and the start and end date fields should be added to the **Show value(s)** area of the Chart Expert's **Data** tab.

Crystal Reports 10

Funnel Chart

Funnel charts are often used to represent stages in a sales process. For example, the amount of potential revenue shown for each stage. This type of chart can also be useful in identifying potential problem areas in an organization's sales processes. A Funnel chart is similar to a Stacked Bar chart in that it represents 100% of the summary values for the groups included in the chart.

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Histogram Chart

A Histogram is a type of bar chart used to depict how measurements vary from the mean value. It can help to identify the cause of problems in a process by the shape of the distribution as well as the width

(deviation) of the distribution. In a Histogram, the frequency is represented by the area of a bar rather than the height of the bar.

Changes in the Charting Tool Interface

This section describes several changes made to the charting interface of Crystal Reports.

Crystal Reports 8.5

In Crystal Reports 8.5, the use of the **Chart Analyzer** was required in order to format a chart. Access the Chart Analyzer by right-clicking the chart, and then clicking Chart Analyzer. The Chart Analyzer has been deprecated in Crystal Reports 9 and later.

Crystal Reports 9

The Chart Analyzer has been deprecated as of Crystal Reports 9. To format the chart, right-click in the chart area, and then click **Chart Options**. New functionality has been added to the **Color Highlighting** feature of Crystal Reports 9.

Color Highlighting

The **Color Highlighting** feature now enables you to conditionally color data on your chart by use of the **Format** button. In Crystal Reports 8.5 this was not possible.

Accessing the **Color Highlighting** feature:

1. Right-click the chart object and then click **Chart Expert**.
2. Clear the **Automatically set chart options** check box located on the **Type** tab of the **Chart Expert** dialog box. The **Options** tab appears.
3. On the **Options** tab, select your desired conditional **Color Highlighting** by clicking the **Format** button.

Crystal Reports 10

Compared to earlier versions, the Crystal Reports 10 charting user interface has changed slightly. Changes include the choice of colors, as well as the appearance of some of the buttons.

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Automatic Chart Options

In Crystal Reports XI, the **Automatically set chart options** check box on the first page of the **Chart Expert** has been removed. Instead, the interface displays all available tabs.

Chart Templates

In Crystal Reports 10 it was possible to load Standard or Custom templates. A Standard chart template is one of the chart templates provided in the **Gallery** tab of **Template** dialog box. A Custom chart template is one that you create, and is accessed through the **Custom** tab of the **Template** dialog box.

In Crystal Reports XI, only Custom Chart templates can be used.

Color Highlighting

The **Color Highlight** feature enables you to color sections of your chart based on specified conditions. For example, you may want the color red to appear each time the country is equal to USA.

To access the **Color Highlight** feature, right-click the chart object and click **Chart Expert**.

In Crystal Reports XI the **Color Highlight** option now appears as a separate tab.

In Crystal Reports versions 8.5, 9 and 10 the Color Highlight feature can be accessed by performing the following steps:

1. Right-click the Chart Object and choose **Chart Expert**.
2. Uncheck the **Automatically set chart options** check box located on the **Type** tab of the **Chart Expert** dialog box. The **Options** tab now appears.
3. Click on the **Options** tab and select your desired color highlighting.

Plotting of Null Values

Crystal Reports XI plots null values as zero (0). Crystal Reports 9 and 10 did not plot null values. If a chart is created based on data that contains null values, Crystal Reports XI will assume that the value is zero.

This is a known issue with Crystal Reports XI. This issue has been assigned Track ID ADAPT00509616.

Changes in Chart Creation

When creating a chart in Crystal Reports XI, the chart is inserted into the report, and then you provide the data information for the creation of the chart. In Crystal Reports 10 and earlier, the data information is entered in the **Chart Expert** dialog box, and then inserted into the report.

Finding More Information

For more information and resources, refer to the product documentation and visit the support area of the web site at

<http://www.businessobjects.com/>

- [cr9_charting_print_time_formulas.pdf](#)
- [c2018139 - Chart Type changes when Migrating Chart from 9 to XI](#)

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