

Moving Business View Reports to Crystal Reports for Enterprise



Applies to:

SAP Crystal Reports 2011 (CR2011)

SAP Crystal Reports for Enterprise (CR4Ent)

Summary

This content was created to explain the process of moving CR2011 reports based on Business Views to CR4Ent. While Business Views are supported in CR2011 they are replaced by Universes (UNX) in CR4Ent.

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Created on: 15 March 2013

Author Bio



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Background Reading

- For detailed information on Business Views please refer to “Using Business Views” at <http://help.sap.com/bobip40/>
- For detailed information on the Information Design Tool please refer to the “Information Design Tool User Guide” at <http://help.sap.com/bobip40/>
- For detailed information on moving your content into the SAP BusinessObjects Business Intelligence Platform 4.0 please refer to the “Business Intelligence Platform Upgrade Guide” at <http://help.sap.com/bobip40/>

Overview of Moving Business View Reports to CR4Ent

CR2011 is the starting point for moving Business View reports to CR4Ent. Reports from previous versions should be brought into CR2011 as per the “Business Intelligence Platform Upgrade Guide” referenced in Background Reading.

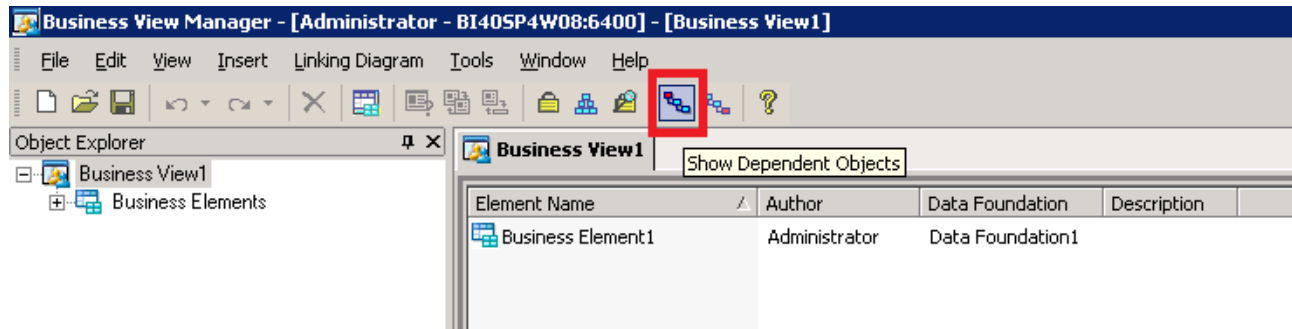
Moving a Business View report from CR2011 to CR4Ent can be summarized as follows.

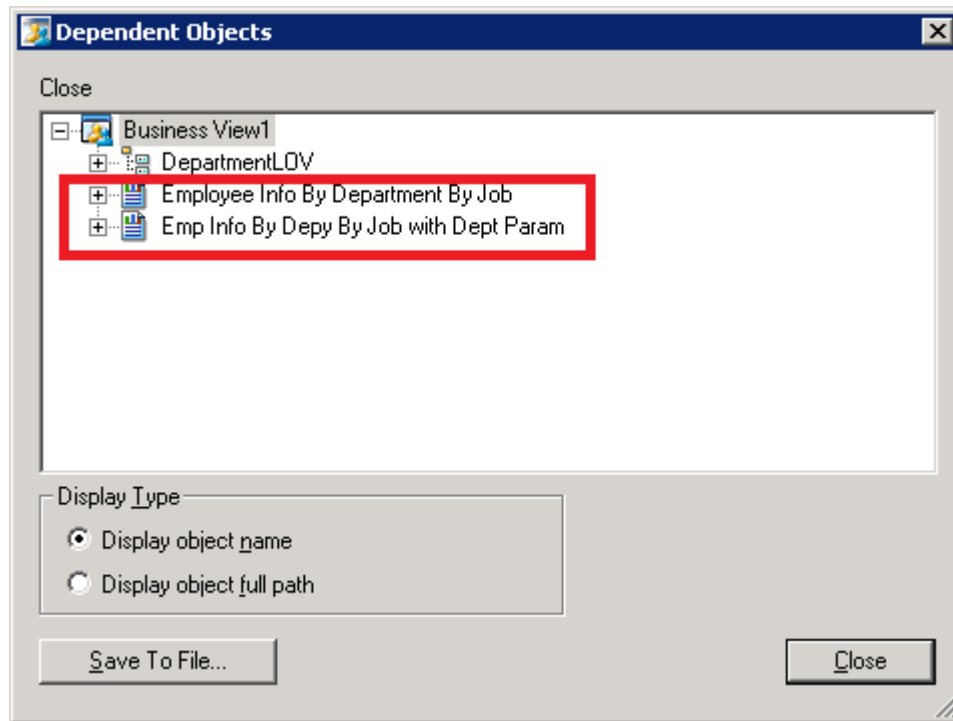
1. Create Universes (UNX) using the Information Design Tool that provide the structure and features of the Business Views used in the CR2011 reports. Store these Universes in BI 4. Best practices for Universe creation can be found on the SAP Community Network at <http://scn.sap.com/docs/DOC-17374>
2. Identify which reports use a particular Business View using the Business View Manager
3. Open each report in CR2011, disconnect it from the Business View and Save with Data.
4. Open the disconnected report in CR4Ent and Set Location to the appropriate Universe (UNX).

Identify which reports use a particular Business View using the Business View Manager

In the Business View Manager the Dependent Objects functionality can be used to determine which reports use a particular Business View so that once you have created the Universe (UNX) which replaces a particular Business View you know which reports you can move over.

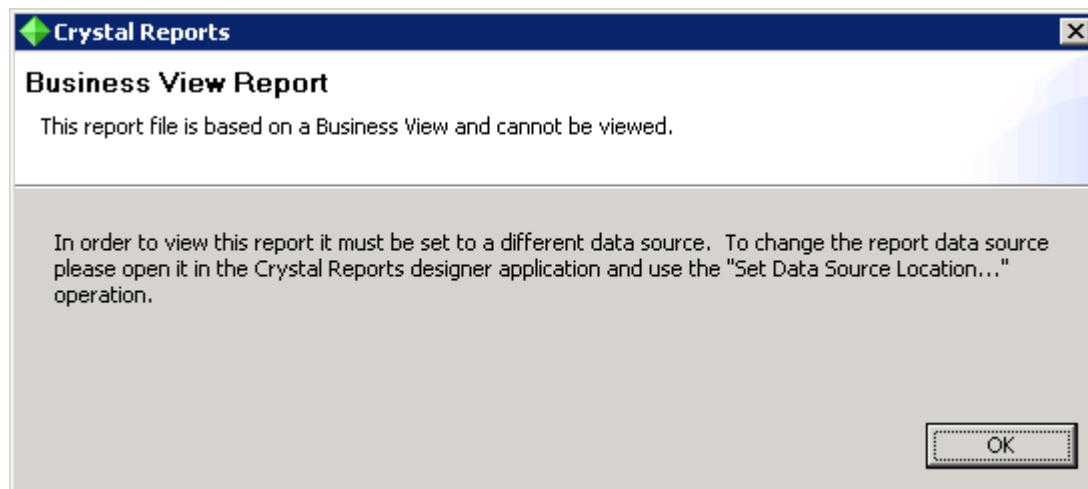
Start the Business View Manager and open the Business View whose Dependent Objects you want to see. Click the Show Dependent Objects button to display the Dependent Objects dialog.





Disconnect each report from its Business View in CR2011 and Save with Data

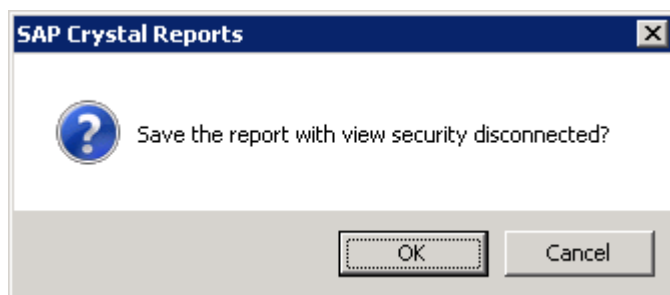
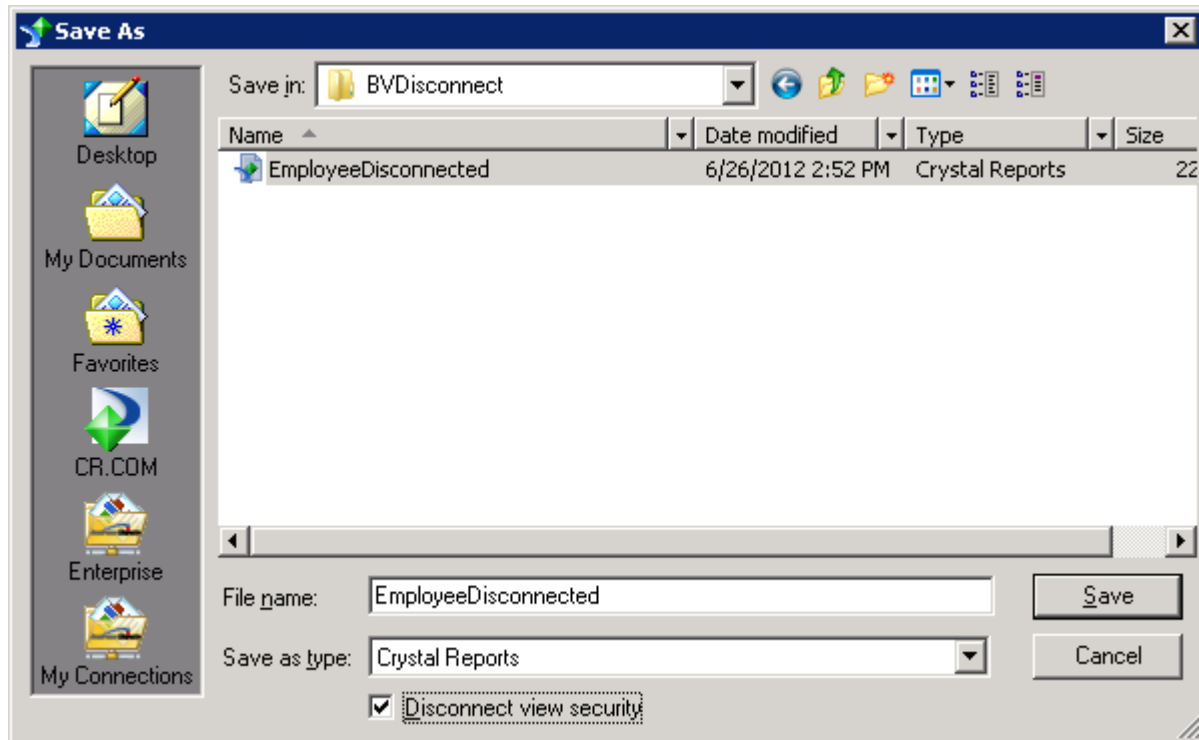
If a report is not disconnected from its Business View the following error will be generated in CR4Ent and the report will not be opened.



1. Open the report in SAP Crystal Reports 2011 and ensure that **File | Save Data with Report** is checked.



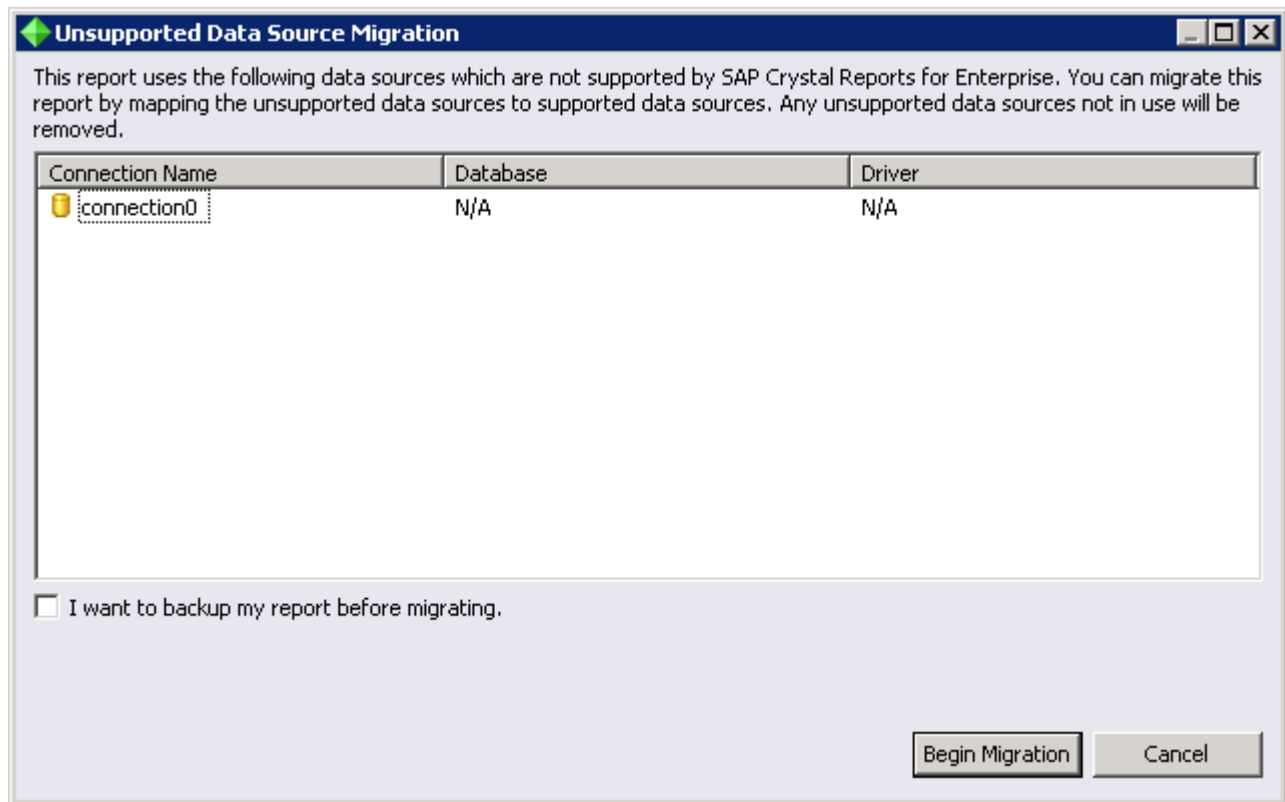
2. Next click File | Save As... to save the report to a file system folder. Ensure to check on the **Disconnect view security** option.



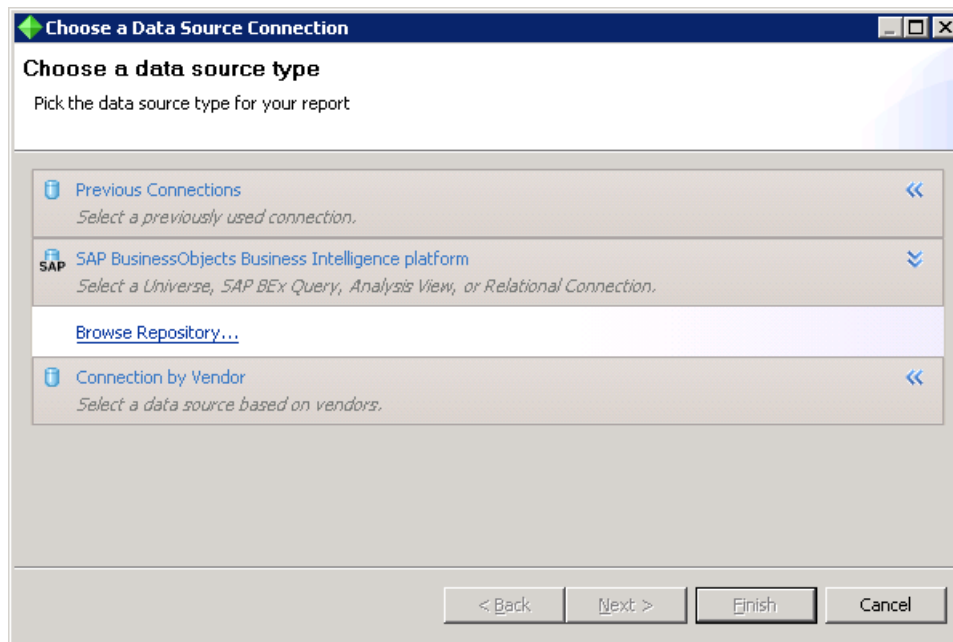
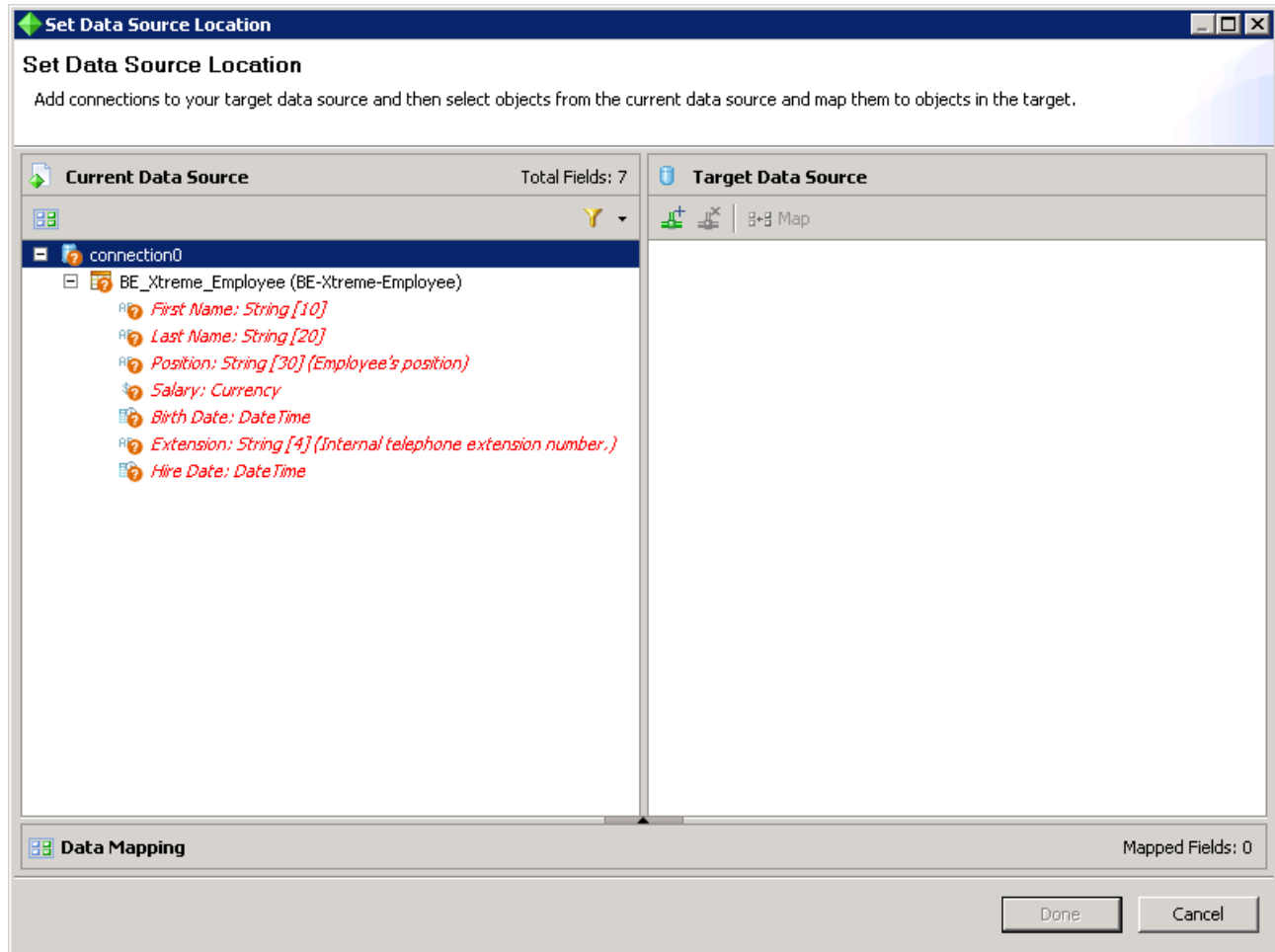
Set Location to the appropriate Universe (UNX)

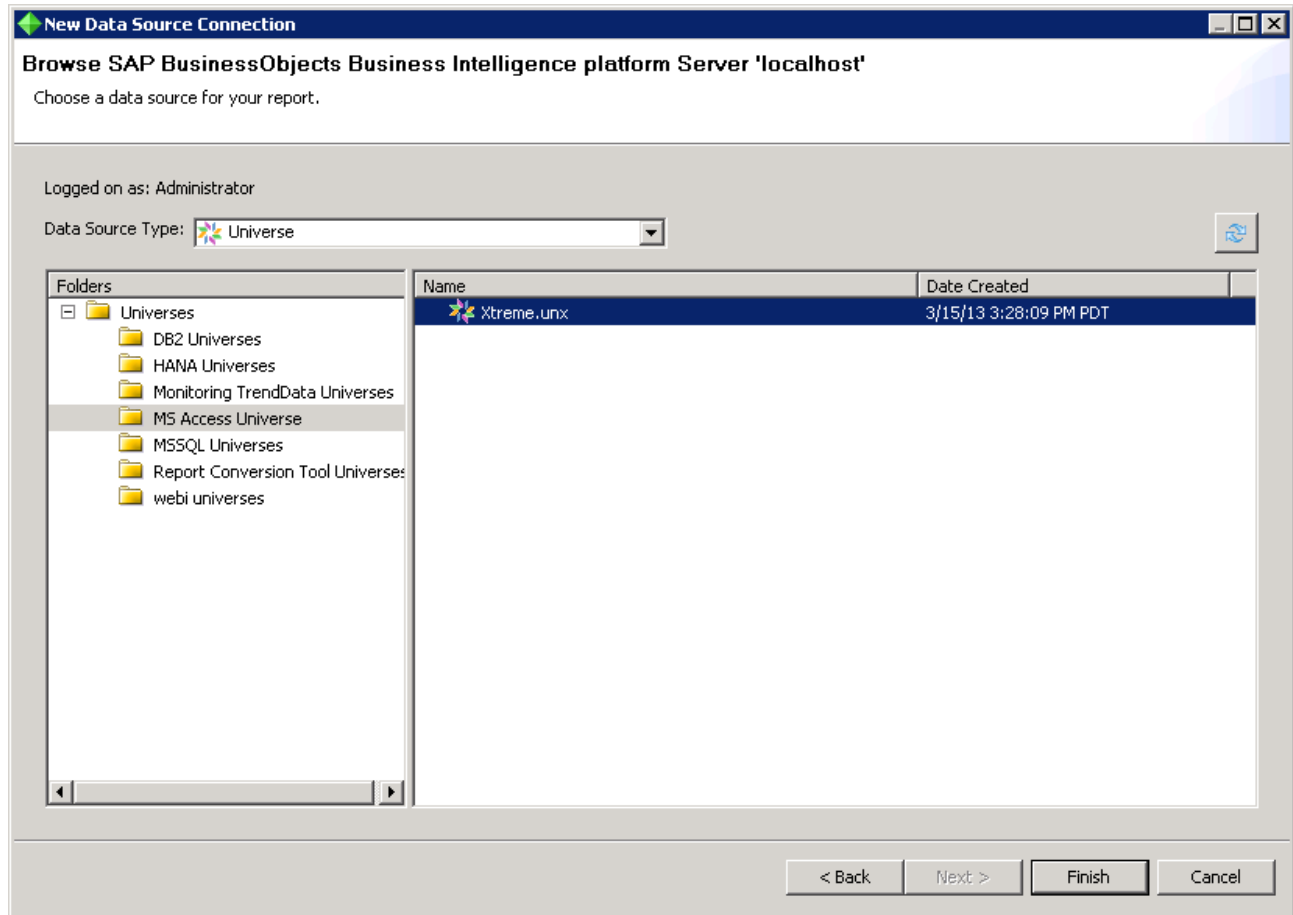
Once the report is disconnected from the Business View it can be opened in CR4Ent to begin the Unsupported Data Source Migration workflow to point the report to the equivalent Universe (UNX).

1. Open the disconnected report in CR4Ent and Click Begin Migration when prompted



2. Connect to a Target Data Source





3. Map Fields

Set Data Source Location

Add connections to your target data source and then select objects from the current data source and map them to objects in the target.

Current Data Source	Total Fields: 7	Target Data Source	
<ul style="list-style-type: none"> connection0 <ul style="list-style-type: none"> BE_Xtreme_Employee (BE-Xtreme-Employee) <ul style="list-style-type: none"> First Name: String [10] Last Name: String [20] Position: String [30] (Employee's position) Salary: Currency Birth Date: DateTime Extension: String [4] (Internal telephone extension number.) Hire Date: DateTime 		<ul style="list-style-type: none"> Xtreme.unx <ul style="list-style-type: none"> Xtreme <ul style="list-style-type: none"> Employee <ul style="list-style-type: none"> First Name: String [65,534] 15% Last Name: String [65,534] 15% Position: String [65,534] 15% Salary: Number 15% Extension: String [65,534] 15% Birth Date: DateTime 50% Hire Date: DateTime 100% 	

Data Mapping ✔ Mapped Fields: 7

Placeholder Formula Remove from Report Clear All

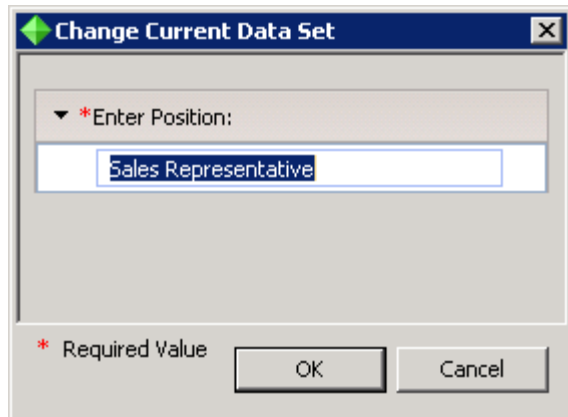
BE_Xtreme_Employee.First Name	Xtreme.Employee\First Name
BE_Xtreme_Employee.Last Name	Xtreme.Employee\Last Name
BE_Xtreme_Employee.Position	Xtreme.Employee\Position
BE_Xtreme_Employee.Salary	Xtreme.Employee\Salary
BE_Xtreme_Employee.Birth Date	Xtreme.Employee\Birth Date
BE_Xtreme_Employee.Extension	Xtreme.Employee\Extension
BE_Xtreme_Employee.Hire Date	Xtreme.Employee\Hire Date

Main Report

Done Cancel

Managed Dynamic Prompts

Managed Dynamic Prompts make use of List of Value (LOV) objects stored in the repository which are based on Business Views. Since CR4Ent does not support Business Views the Managed Dynamic Prompts in a CR2011 report will be given a static and empty List of Values when opened in CR4Ent.



Dynamic and Dynamic Cascading Prompts can be created in the CR4Ent designer or inherited from the Universe (UNX). Examples of a Dynamic Prompt created in the CR4Ent designer and a Dynamic Cascading Prompt inherited from the Universe (UNX) follow. Additional information on Prompting in CR4Ent can be found in the "SAP Crystal Reports for Enterprise User Guide" at <http://help.sap.com/bocre40/>. Additional info on Prompting in the Universe (UNX) can be found in the "Information Design Tool User Guide" at <http://help.sap.com/bobip40/>.

Dynamic Prompt created in the CR4Ent Designer

Static parameter created from the original Managed Dynamic Prompt can be edited to add a new Dynamic List of Values based on the data connection used in the report.

Edit Parameter

Parameter Properties

Name: Data Type:

Allow Multiple Values Discrete Range Discrete and Range

Prompt Value Optional

Prompt Prompt To User Hidden Prompt

Prompt Text: Prompt Panel:

List of Values: ...

Select Values Only From List

Prompt With Description Only

Minimum Length: Maximum Length: Edit Mask:

Initial Values: ...

Edit List of Values

Type of List: Static Dynamic

Value:

Description:

Sort by in order

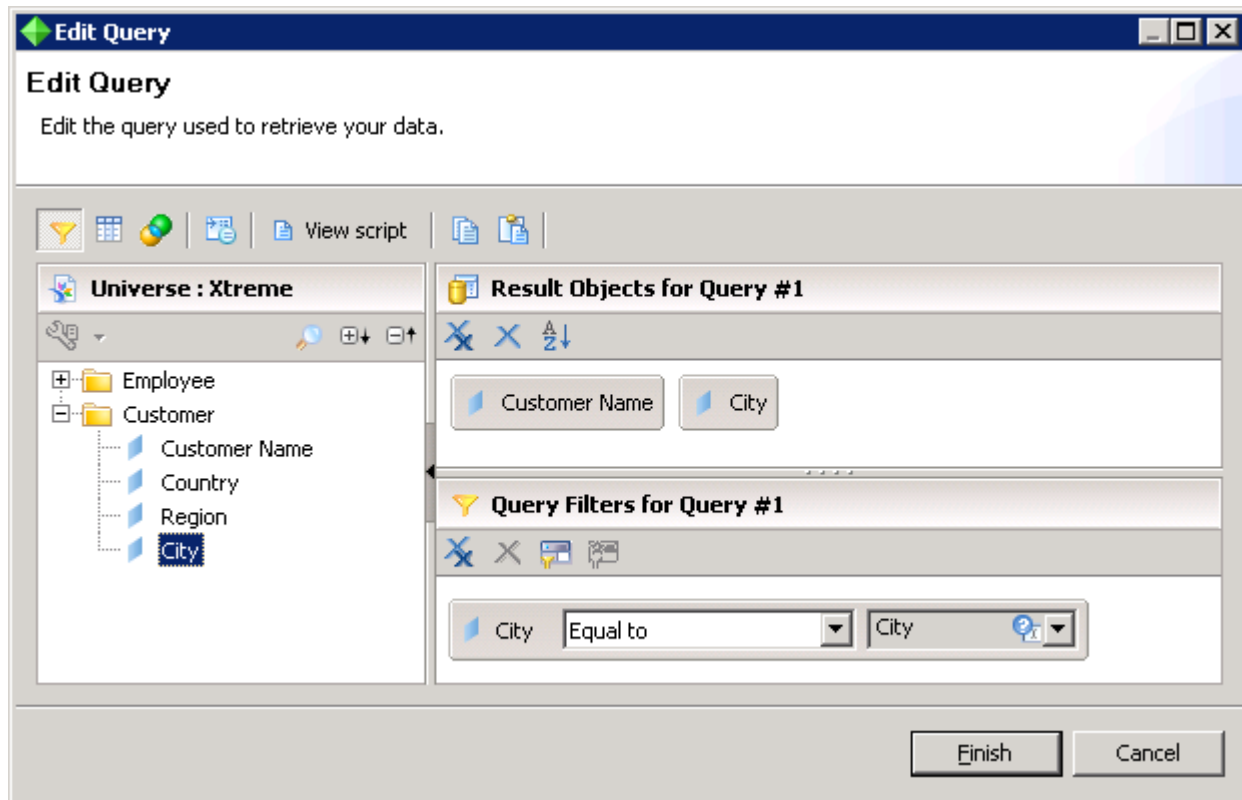
and then sort by in order

Inheriting Dynamic Cascading Prompt from Universe (UNX)

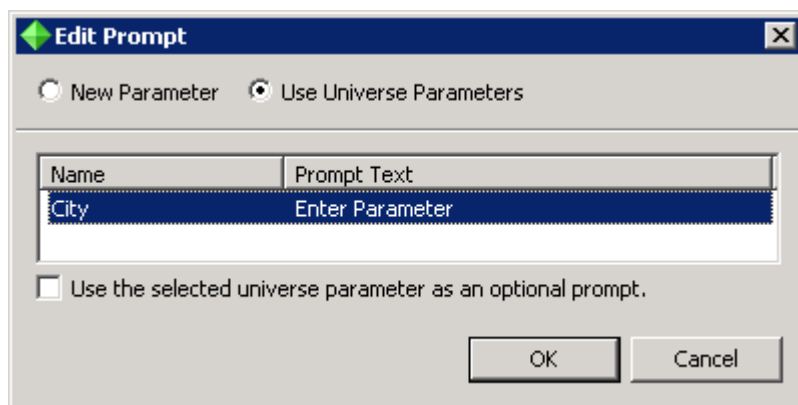
The static parameter created from the original Managed Dynamic Prompt may have been part of a Managed Dynamic Cascading Prompt. For example a City prompt may actually have been a Country > Region > City Cascading Prompt where only the value of City was used in the Record Selection. One way to recreate this functionality is to define a Parameter with List of Values in the Universe (UNX) and then inherit it in CR4Ent.

Once the List of Values and Parameter exists in the Universe (UNX) the Record Filter in the report can be replaced by a Query Filter.

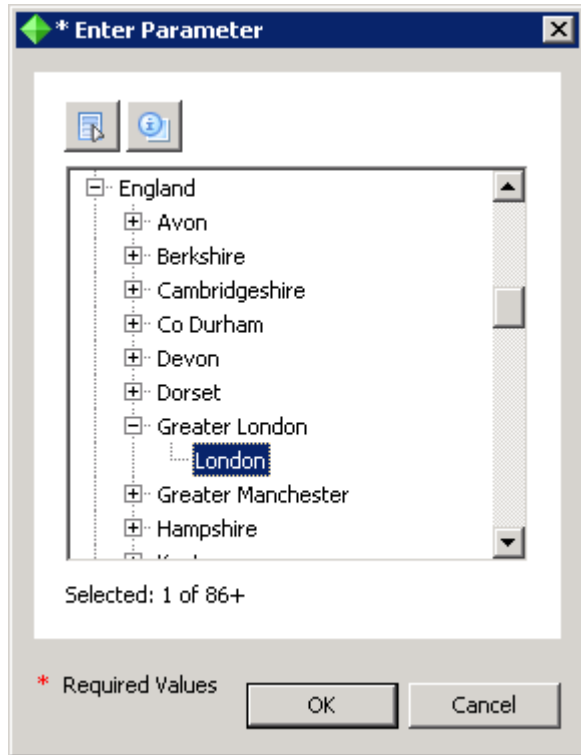
1. Edit the Query and add City as a Query Filter



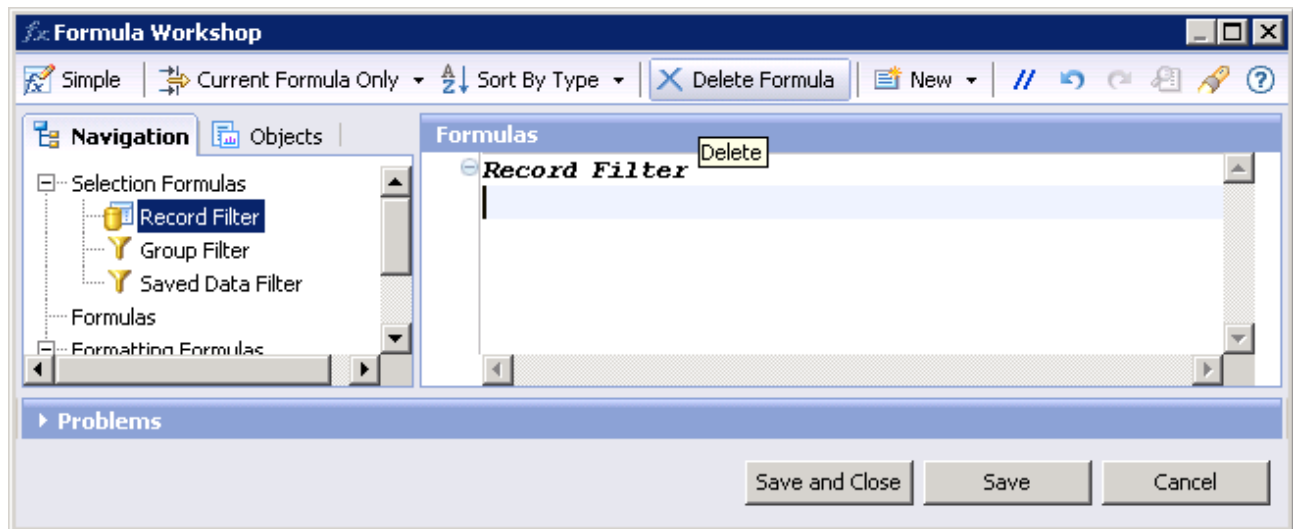
2. Edit the Query Filter to set City Equal to a prompt based on a Universe Parameter



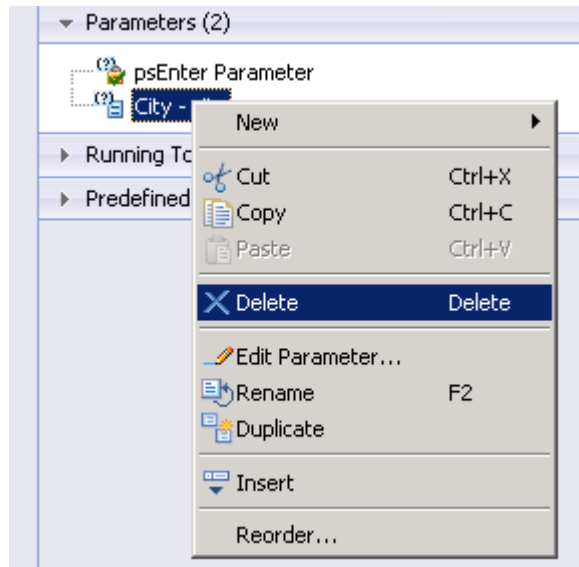
- Report will filter at the query level and inherit the Cascading Prompt from the Universe (UNX)



- Data Formula for Record Filter can now be removed



5. Static parameter created from the original Managed Dynamic Prompt can be deleted



Business View Security

Filtering the data in an SAP Crystal Reports instance when viewed based on the BIP user (a.k.a. View Time Security) is not available in CR4Ent. **This feature is under consideration for a future release.**

Universes (UNX) do provide refresh time security which is applied when a report is scheduled or refreshed as discussed in the following sections

Business View Row Security

Business View Filters allow an administrator to ensure that the data that is returned to the user is restricted to only specific information that the user has access to, and thus, can view. Business Views supports multiple filters at the same level, and also composite filters at multiple levels.

Universes (UNX) contain Security Profiles which provide a similar functionality. This functionality is described in section “16.1 About universe security” in the Information Design Tool User Guide.

Security Profiles are created and edited in the Information Design Tool using the Security Editor. Using a Business Security Profile a user or group of users can be limited in the data values they can see by use of a Filter.

Business View Column Security

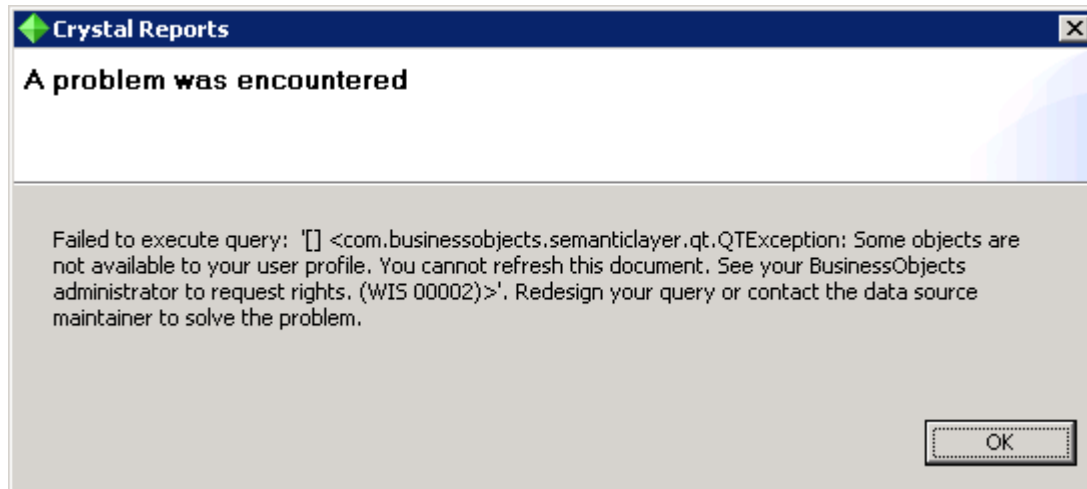
Business View Column Security is typically implemented to filter which fields are returned to the report user. A typical example involves a Business Element that contains employee information. Managers may need access to all of the fields, but employees do and should not have access to the salary and bonus fields. By applying column security, administrators can have as much granular control over the fields as needed.

Universes (UNX) provide two different functionalities which provide a similar result.

1. Security Profiles are described in section “16.1 About universe security” in the Information Design Tool User Guide.
2. Object Access Levels are described in section “10.7.18 Setting object access levels” in the Information Design Tool User Guide and in sections “27.3.10 Universe object-access levels” in the Business Intelligence Platform Administrator Guide

Universe (UNX) Security Profiles

Security Profiles are created and edited in the Information Design Tool using the Security Editor. Using a Business Security Profile a user or group of users can be granted or denied access to a column for Create Query and Display Data workflows. When access is denied to a column the workflow differs from Business Views for an existing report as the following message is generated.



Universe (UNX) Object Access Levels

Object Access Levels are an advanced attribute that is assigned in the Information Design Tool. Once a column is given a specific access level such as Private then it can only be used by users or groups of users with Private level access to the Universe (UNX) in question. Users or groups of users are granted a specific access level to a Universe (UNX) in the Central Management Console. When a user does not have sufficient access level for a column the workflow in the CR4Ent designer differs from Business Views in that the column is removed from the report and the report is automatically verified.

Business View Object Security

Business View Object Security is closely related to column security, but it is applied on any Business Views object.

Universe (UNX) Security Profiles described in the Business View Column Security section of this document can be used to grant or deny access to all objects including Folders and as such are the closest replacement for Business View Object Security.

Universe (UNX) Object Access Levels described in the Business View Column Security section of this document can NOT be used to grant or deny access to Folders.

Dynamic Data Connections

Dynamic Data Connections consist of a collection of pointers to different Data Connections; through an exposed parameter, administrators or users can specify which Data Connection they wish to use.

Dynamic Data Connections are not available in CR4Ent. **This feature is under consideration for a future release.**

Related Content

[Using Business Views](#)

[Information Design Tool User Guide](#)

[Business Intelligence Platform Upgrade Guide](#)

[Universe Best Practices](#)

[SAP Crystal Reports for Enterprise User Guide](#)

[Business Intelligence Platform Administrator Guide](#)

[KBA 1764629 This report file is based on a Business View and cannot be viewed.](#)

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