

TRAINING GUIDE

Beginning Crystal 1

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Using Crystal Reports with Lucity

Beginner Examples - 1

The first of a seven-part series, this workbook is designed for new Crystal Reports® users. You'll learn how to make small modifications to an existing report under a new report name, and link your customized report into Lucity.

The easiest thing to do using Crystal Reports is to modify existing reports. Many times the existing reports offered within the modules are very close to what you had in mind. There may simply be a missing field, a field that needs to be added or moved, an agency logo added, or simple formatting changes that would make the report just right. The following information should help you make the reports your own.

Note: You must own a copy of the Crystal Reports software in order to modify existing reports or create new reports.

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Lucity provides a Request Summary Report that looks like this:

Summary of Requests 2/						
Request #	Record Date Status	Status Date Priority	Problem	Address		
2006-00093	4/6/2006 Completed	4/10/2006	COM - 06 YD REMOVAL	1710 E QUEEN PALM DR		
2006-00094	4/6/2006 Completed	4/12/2006	COM - 40 YD ROLLOFF DELIVERY	2459 S RACINELN		

We would like to change the report to make it look like this:

+ lucity.

Summary	of Request	s					2/26/2014 10:26 AM
Request#	Record Date	Status	Status Date Follow-Up	Category	Problem	X Coord	Y Coord
2006-00013	4/5/2006	Completed	6/12/2006 10/1/2006	Commercial Collection	INFO REQUEST - COMMERCIAL	43.63871944	-118.24135134
2006-00022	4/5/2008	Completed	4/7/2008 8/1/2008	Commercial Collection	COM - 40 YD ROLLOFF SERVICE / RETURN	43.67859656	-116.59867866

Finding the Report Location and Name

- 1. Open the Lucity module where the Request Summary Report is located.
 - Select Work>>Request from the Lucity main menu.
- 2. Open the *Reports* dialog. Click the report icon 🛄 on the module toolbar.
- 3. Locate the report to be modified and highlight it.

• Summary of Requests

- 4. You'll see the *Report File Path* at the bottom of the dialog box. This path tells you important information about the report.
 - The first part of the path tells you where the report file is located. In our example below, the report is located at C:\Lucity76\Reports\Work\.

Note: Lucity report files are stored in the shared files location designated during your initial installation. This is typically on a file server, but could be on your local machine. In the path shown below, C is a mapped drive. This could also be a UNC path using the full server name.

• The report name appears after the last backslash. As you can see below, this report is named **ReqSum.rpt**.

🖱 Dialo	g	-	
Reports	Request Problem Count Report Request Response Time by Supervisor Request Response Time by Supervisor Summary Request Work Order Costs Grouped by Problem Type Requested Work Form Requests For Same Location Requests per Address Report Requests Without Affected Utility	•	Report Filter This Record Only Current Filter All Records View Report Print Report
	Response Letter Summary of Requests Work Request/Work Order Review		Export Report
· · ·	Description: ne Summary of Each Request.	*	Add Edit
		Delete Properties	
	File Path: ty76\Reports\Work\ReqSum.rpt		Close

In the report location the Reports Directory can be sorted by **Name** or **Date Modified** by clicking on the title in the upper bar.

Name 🔻	Date Modified
WOTskSumByCrew.rpt	1/22/2007 1:25 PM

Renaming Reports

If you modify a report and save it under the original name, the changes you made will be overridden the next time Lucity is upgraded. Thus, reports that are modified need to be saved under a new name in order to be used. *Note:* You must have adequate permissions to save the modified reports. If you are not sure whether you have these permissions, check with your system administrator.

1. You'll want to make a copy of the report before you begin working on it. You can do this by simply exporting the report from the Lucity module's Report List to the Report Directory under a different name.

- 2. It's a good practice to establish a naming convention for your custom reports that makes them easy to distinguish from the Lucity standard report names. For example, you might want to add a two or three letter abbreviation for your company or organization or perhaps your initials to the original report name as a prefix or suffix.
 - Some sample custom report names are LC_ReqSum.rpt or ReqSum_LC.rpt.
 - Adding the abbreviation to the end of the report name (before the .rpt extension) will allow the custom report to be sorted with the original.
 - Adding the abbreviation as a prefix will sort all of your custom reports together.
- 3. Lucity reports store database connection information. When the report is run in Lucity, the program replaces this connection information with connection strings specific to the customer's database configuration during run-time. When you export a report, the database connection information used at run-time is saved. This is the preferred method for handling Lucity reports and will ensure that the report stays pointed to the correct data set so that the report can be run out in Crystal.

Exporting a Report

As we mentioned above, the preferred way of handling Lucity reports is to export them. This allows you to rename the report and make modifications as well as maintain your database connection information. Follow the steps below to export a report:

- 1. Within the Reports dialog click All Records.
- 2. Highlight the report you'd like to copy and select Export Report. (Wait)

💾 Dialo	g ann tatura han barra hang land	-						
Reports:			Report Filter					
3 2 2 2 2 2 3 2 2 2	Request Problem Count Report Request Response Time by Supervisor Request Response Time by Supervisor Summary Request Work Order Costs Grouped by Problem Type Requested Work Form	^	C This Record Only C Current Filter C All Records					
	Requests For Same Location Requests per Address Report Requests Without Affected Utility Response Letter	Ш	View Report Print Report Export Report					
	Summary of Requests Work Request/Work Order Review	•	Add					
	Description: e Summary of Each Request.		Edit					
	countraly of Education equipation.		Delete					
		Ŧ	Properties					
Report File Path:								
C:\Luci	ty76\Reports\Work\ReqSum.rpt		Close					

- 3. An Export dialog will appear.
 - Select "Crystal Reports" from the Format drop down box.
 - Then, select "Disk file" in the Destination drop down box and click OK.

Export	×
Format:	
🖃 Crystal Reports (RPT)	OK
Destination:	Cancel
🖃 Disk file 💌	

4. The following dialog will appear:

Choose Export File		2		2		X			
🕞 🖓 🗸 Lucit	y76	▶ F	Reports 🕨 Work 👻	49	Search Work	م			
Organize 🔻 New	fold	er				:= • 🔞			
	*	١	lame		Date modified	Туре			
▲ □ Libraries	_	[2TestWOSumName.rpt		10/18/2011 3:05 PM	Crystal Report			
Documents	_	[ActivityGuideline.rpt		5/31/2011 10:32 AM	Crystal Report			
Music		E	[ActivityGuidelinePB.rpt		5/31/2011 10:32 AM	Crystal Report		
Pictures		[BudgetAnnWkPlanDet.rpt		5/31/2011 10:32 AM	Crystal Report			
Videos			[BudgetDeptDetail.rpt		1/18/2012 1:37 PM	Crystal Report		
⊿ 🖳 Computer					[BudgetDeptList.rpt		5/31/2011 10:33 AM	Crystal Report
Local Disk (C:)					[BudgetDeptSumm.rpt		5/31/2011 10:33 AM	Crystal Report
						[BudgetPlannedVsActual.rpt		5/8/2012 8:55 AM
▷ 📻 HP_TOOLS (E:)	Ŧ	•		_		•			
File name: LC_ReqSum.rpt Save as type: Crystal Report (*.rpt)									
							Hide Folders		

- 5. Find the location where the report is to be stored. It is recommended that you use the default report location discussed in the previous pages.
- 6. Type in a new File Name (LC_ReqSum.rpt.
- 7. Click Save.

8. At this point the report needs to run, so if the subtitle query shows up, just click OK.

Note: If the Export takes more than a few seconds then cancel and change the Report filter to "This Record Only". This may be necessary for complex reports, especially ones with subreports. Then Export (follow above steps 2 - 8).

Exporting Rec	ords 🧮	x
	Current Total]
Records]
	% Complete	
	Cancel	

- 9. Close the Report dialog.
- 10. Minimize the Lucity module.
- 11. In the Reports Directory, open the new report that was just exported.
 - On the report title either Right click and select *Open* or double click.
- 12. From the menu bar at the top of the screen, select File.
- 13. Uncheck the Save Data with Report option.
- 14. Click Save.
- 15. If the report is Exported with *This Record Only* then the Select Expert needs to be opened and the ID selection formula deleted.
 - Click Select Expert .
 - Click Show Formula>>>.

ſ	Select Expert	x
	WKREQ.RQ_ID <new></new>	
	is equal to	New
		Delete
		Browse
	OK Cancel Help	Show Formula >>>

Select Expert			23
WKREQ.RQ_ID <new></new>	▼ 57.00	_	New Delete Browse
OK Cancel	Help		iide Formula <<<
Record Selection	Group Selection		Formula Editor
{WKREQ.RQ_ID} = 57			*

- Click and drag over the formula.
- Press Delete key to remove.
- Click OK.
- Click Save.
- \circ You are now ready to begin making modifications to the report.

Note: Reports with "secure" fields may show as "Hidden" but this is temporary and can be changed when refreshing the report and choosing the "Prompt for new parameter values". If date fields were required to run the report these too would be temporarily placed in the report until the report is refreshed and new parameters are given.

Options

Whether a report is modified or created new, it is helpful for certain report options to be set before working on the report. Within the Crystal Reports *Options* and *Report Options* there are a number of settings that can be preset for generalizations. These can be changed for individual reports or individual fields within a report.

- 1. To view the "Options" section, we will look at the previously exported report, LC_ReqSum.rpt.
 - In the Menu Bar click File >> Options
- 2. The following screen captures show you what options can be changed behind the scenes. These options will be reflected in all of the reports created.

Options				X	
Fonts	Smart Ta	g & HTML Preview	Dependency	Checker	
Layout	Database	Formula Editor	Reporting	Fields	
Design View V Rulers Guideline Grid Tool Tips Short Sec Show Hid	-	Preview Preview Rulers Guidel Grid Tool T Sectio Page	ines ìps	ges	
Grid options: Snap To Free-Form Grid Size: 0.083		● Full ● Fit V ● Fit F	Pages Start With: Full Size (100 %) Fit Width Fit Page Display Group Tree		
		ОК	Cancel	Help	

Fonts	Smart Ta	g & HTML Preview	Dependency	Checker
Layout	Database	Formula Editor	Reporting	Fields
Tables and Fi	elds			
Show Name	ie	🗸 Sort Ta	bles Alphabetical	y
Show Des	cription			
Show Both	1	V Sort Fie	elds Alphabetically	
Data Explorer				
Tables		Table nam	e LIKE:	
Views			(%,_)	
System Ta	bles	Owner LIK		
Synonyms		Owner LIK		
Stored Pro	cedures		(%,_)	
Advanced Op	tions			
_ ·	es or Server for Si	peed		
	ouping On Server			
Database	Server is Case-Ins	sensitive		
Select Dist	tinct Data for Brov	vsing		
Perform Query Asynchronously				
	First Refresh			
🔽 Verify On F				
	ed Procedures Or	n First Refresh		
Verify Store	ed Procedures Or en Database Drive Smart Linking			

Notes:_____

Fonts	Smart Tag	g & HTML Pre		Dependency	Checker
Layout	Database	Formula Editor		Reporting	Fields
Text Options -					
Font:			Tab Si	ze:	
Courier New	-	• 10 · •	4		
Color					
Element:		_	Foregro	ound:	
Comment Keyword				Black	Ŧ
Text Text Selection			Backg	round:	
🔽 Use Windo	ws system color			White	×
Default Formula					
Crystal Syntax			LIEL C.		
Crystal Syntax Null Treatment	:		UFL Su		
Default Formula Crystal Syntax Null Treatment Exceptions Fo	:	•		upport: M UFLs Only	•
Crystal Syntax Null Treatment	:	·			•

Notes:_____

Options				×
Fonts	Smart Ta	ag & HTML Preview	Dependenc	y Checker
Layout	Database	Formula Editor	Reporting	Fields
Enterprise Se	ttings			
Vpdate En	terprise Report P	roperties on Save		
Update Co	nnected Reposit	ory Objects on Open		
Reading Data	3			
Convert Da	atabase NULL Va	alues to Default		
Convert Ot	her NULL Values	to Default		
🔲 Always So	rt Locally			
	With Report			
Discard Sa	aved Data on Ope	en		
Re-import	Subreport on Ope	n		
Suppress	Printing if No Rec	ords Selected		
Show All H	leaders on Drill D	own		
Autosave	Reports After	5	Minutes	
🔽 Display Ale	erts on Refresh			
Save Prev	iew Picture			
📃 Retain Orig	ginal Image Color	Depth		

0	Options				×
	Fonts	Smart Ta	ag & HTML Preview	Dependency	y Checker
	Layout	Database	Formula Editor	Reporting	Fields
		Field format:			
			String		
			Number		
			Currency		
			Date		
			Time		
			Date and Time		
			Boolean		

For each field type there are format options specific to that type.

String

Common Border Hyperlin	ık
Object Name:	
objectmaner	
Read-only	Lock Position and Size
Suppress	
Suppress If Duplicated	
Can Grow	Maximum number of lines:
	(Enter 0 for no limit) 0
Text Rotation:	0 v degrees
Horizontal Alignment:	Default 👻
CSS Class Name:	8.2
	<u> </u>
Repeat on Horizontal P Keep Object Together	ages
Close Border on Page B	ireak
	- Cux
Number	
Common Number Borde	er Hyperlink
Style	
System Default Number	Format Currency symbol (system default):
-1123 -1,123	carrency symbol (system derdally)
-1123.00 -1,123.00	Display Currency Symbol
-1123.0000	Fixed
-1,123.0000 (1123)	 Floating
(1,123) (1123.00)	(e) i loading
(1,123.00)	
(1123.0000) (1,123.0000)	

stom Styl

Customize...

Currency

Common Number Border Hyperlink	
Style System Default Currency Format \$-1123 \$-1,123 \$-1123,000 \$-1,123,000 \$-1,123,000 \$-1,123,0000 \$(1123,0000) \$(1,123) \$(1,123,000) \$(1,123,000) \$(1,123,000) \$(1,123,0000) \$(1,123,0000)	Currency symbol (system default): Display Currency Symbol Fixed Floating
Customize	

Date

Common Date Border Hyperlink	
Style	
Style System Default Long Format System Default Short Format 3/1 3/01 3/1/99 03/01/1999 1 - Mar 1-Mar - 1999 01-Mar - 1999 01-Mar - 1999 Mar - 99 March 1999 March 01, 1999 March 01, 1999 Monday, March 1, 1999 Monday, 1 March, 1999 3 3-99	
Customize	

Time

Common Time Border Hyperlink	
Common Time Border Hyperlink Style System Default Time 13:23 1:23 pm 13:23:45 1:23:45 pm 13:23.45	
Customize	

Boolean

Common	Boolean	Border	Hyperlink				
Boolean	Text:	Tru	ue or False		•		

Options				×
Layout	Database	Formula Editor	Reporting	Fields
Fonts	Smart Ta	ag & HTML Preview	Dependency	y Checker
	- Default fonts	:		
		Fields		
		Summary Fields		
		Group Name Fields		
		Text Objects		
		Field Titles		
		Charts		

Each Field or Object type opens the Font options.

Font:	Font style:	Size:
Arial	Regular	9
Image: Arial Image: Arial Black Image: Arial Black Image: Arial COP Image: Arial COP Image: Arial Narrow Image: Arial Narow <td></td> <td>9 10 11 12 14 16 18</td>		9 10 11 12 14 16 18
Black	•	
Effect:		
Strikeout	Underline	
Preview:		
	AaBbYyZz	

Layout	Database	Formula Editor	Reporting	Fields
Fonts	Smart	Tag & HTML Preview	Dependency	Checker
Smart Tag Web	o Server Optio	ons		
Web Server Nam	ne:	http://localhost		
Virtual Directory:		crystalreportviewers	\$11	
BusinessObject	is always ena ts Enterprise	crsmarttag.asp abled when you are logg		
HTML Preview HTML Preview BusinessObject	is always ena ts Enterprise			
HTML Preview HTML Preview BusinessObject	is always ena s Enterprise /IL Preview w	abled when you are logg		
HTML Preview HTML Preview BusinessObject Enable HTM Enterprise	is always ena s Enterprise /IL Preview w	abled when you are logo when not logged on to th		
HTML Preview HTML Preview BusinessObject Enable HTM Enterprise	is always ena s Enterprise /IL Preview w	abled when you are logg then not logged on to the localhost		
HTML Preview HTML Preview BusinessObject Enable HTM Enterprise	is always ena s Enterprise /IL Preview w	abled when you are logg then not logged on to th localhost © COM		

Options				×			
Layout	Database	Formula Editor	Reporting	Fields			
Fonts	Smart Ta	g & HTML Preview	Dependency	Checker			
Report Checking Options							
Compi	le formulas						
Compi	le SQL expression	s					
Compi	le custom function	s					
🔽 Valida	te hyperlink URLs						
Verify database							
Multi-Report Checking Options							
Check repository custom functions							
Check repository objects (text and bitmap)							
Check	Check report part hyperlinks						
Check	subreports which	are re-imported on ope	en				

Report Options

Report Options are specific to an individual report.

• In the Menu Bar click File >> Report Options.

These Report Options are also available within Subreports (discussed later).

	Report Options	8 / ×		1.0			X
	General Settings						
	Convert Database NULL Values to	Default	Save	e Data With F	Report		
	Convert Other NULL Values to Def	ault	📃 Supp	oress Printing	If No Reco	ords	
	Show All Headers On Drill Down	Show All Headers On Drill Down		Verform Query Asynchronously			
	Always Sort Locally		🔽 Crea	ate Group Tre	e		
	Database Server is Case-Insensiti	ve	🔽 Disp	lay Alerts on	Refresh		
1	Perform Grouping On Server		🔲 Rea	d-only			
	Use Indexes Or Server For Speed		📃 Sele	ct Distinct Re	cords		
	Verify on First Refresh		🔽 Sele	Select Distinct Data for Browsing			
	Verify Stored Procedures on First	Refresh	🔲 Reta	🔲 Retain Original Image Color Depth			
	Respect Keep Group Together On	First Page	Pron	V Prompt For Hyperlinks			
	Initial Report Part Settings					1.1	
	Paste the Report Part link:				3 Paste	e Link	_
	Object Name:						
	Data Context:						- 1
	Preview Pages Start With :	Full Size					•
			ОК	Ca	ncel	Help	,

Document Properties

Another useful Crystal option is Document Properties. This information could help in report documentation. Some of the fields are available to be used in the report. They are found in the Special Fields section listed in Field Explorer (Discussed later).

• In the Menu Bar click File >> Summary Info...

Document Properties	X
Summary Statistics	
Application:	Crystal Reports
Author:	
Keywords:	
Comments:	*
	-
Title:	
Subject:	
Template:	
Save Preview Pict	ture
	OK Cancel Help

Notes:___

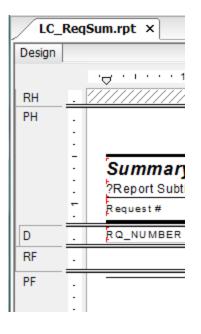
Report Sections

Every report has a minimum of five sections. These sections show on the left side of the report.

LC_ReqSum.rpt ×		
Design		
Report Header		2
Page Header	•	Γ
	1	
	-	
	1	
	<u>.</u>	
	2	
Details		
Report Footer		Γ
Page Footer	_	F
	•	
		1

To conserve space this section can be reduced in size by right clicking in the section and selecting *Show Short Section Names*.

	Page Footer				
	Suppress (No Drill-Down)				
	Se <u>c</u> tion Expert				
<	Show Short Section Names				
	I <u>n</u> sert Line				
	Delete Last Line				
	Arrange Lines				
	<u>Fit Section</u>				
	Insert Section Below				
	Select <u>All</u> Section Objects				



Modifying a Report

Beneath the toolbars the open report will have a tab with the report name. Beneath this, the exported report already has two tabs available, Design and Preview. If the report is opened from the report folder then the Design tab will be present but the Preview will only show after the report is run.

Ē	o o	rysta	Report	s - [LC_R	eqSum.rp	ot]		1	
	Ð	<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>I</u> nsert	Form <u>a</u> t	<u>D</u> atabase	<u>R</u> eport	<u>W</u> indov
	D	Ē	•	6). 🔯 🖄	1 % 🖻	🛍 🖉 🗠) + Ci ·	- 1 ::: :::
	ab	(8	Σ	🎦 🕀	n 🔊 🖉	🔽 🛍	2 :		
	••	Ē	🏞 🗳	z 🌮	⁄≣ ⊻	🛯 🖪 .	9 & 2	S 🛛	$\mathbb{H}_{-}\mathbb{H}_{-}$
	/	LC_I	ReqSun	n.rpt >	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>				
	Des	sign	Preview	×					
		LC_F	ReqSum.rp	pt		•		1	
				PH	-				

The Design page is where most of the report modifications will take place but can be done in Preview.

Note: The undo and redo buttons are very helpful when revising reports.

Saving and Viewing your Report

- Save any changes by clicking on Save 🗳. It is a good idea to Save while you are working and not just when you are finished with the report. (You never know when you will encounter one of those mysterious error statements that shuts you down, forcing you to lose all of your work).
- To preview the report, click Print Preview 0



- To refresh the report, click Refresh 🧐 . \cap
- To limit the number of records previewed: 0
 - In the Menu Bar click View. •
 - Select Preview Sample... •
 - Select *First* and type in the number of records you would like the report to run with. • This is particularly helpful when you have large numbers of records to deal with.

Preview Sample	×
Preview this report with:	
○ All records.	
First 100 reco	rds.
OK Cancel	Help

Note: If you are looking for a specific record in Preview mode, you can use the Find Tool button 🏙 and enter the data you wish to find.

Field Types

Field types include Text Objects, Database Fields, Formula Fields, Field Titles, Parameter Fields, Running Total Fields, Group Name Fields and Special Fields.

When the cursor is placed over the field boxes, field type information appears if *Tooltips* is turned on.

- If you place the cursor over the **Request** # box, *Text Object* appears. This means that **Request** \circ # is a group of characters that can be modified. This is a column header that was manually typed in.
- If the cursor is placed over **RQ_Number**, it shows the table (WKREQ), field name (RQ_NUMBER) and data type (string). Depending on the age of the report the default field caption may also show. This Database Field is bringing in data from a table. In Field Explorer (discussed later) the previous tooltip information may show as well as the size of the string mask for the field.

Changing Text in Text Objects

In the example report, LC_ReqSum.rpt we will change the text object field "Request #" to "Request Number".

To change the text within a *Text Object*:

- 1. Double click on the box with **Request** #.
- 2. Click and drag over the portion you want to change (#).
- 3. Type the new text (Number) and click out of the box.

Request #	Record Date		Request Number	Record Date
RQ_NUMBER	@ReqDate	change to	RQ_NUMBER	@ R eqD ate

Field Sizing

Sometimes it is necessary to resize or delete existing fields to accommodate additional text or make room for a new field.

Resize a Text Box:

- 1. Click on the text object (Problem) which will highlight the borders of the box.
- 2. This will activate the the sizing handles, the small dark dots on each side of the box.

Problem

3. Place the cursor over the right border's mark which will turn the curser into a two sided arrow. Click and drag the box to the left to reduce the empty space.

Problem]

Resize a Field:

- 1. Click on the field (RQ_PROB_TY).
- 2. Click on the right sizing handle and drag to the left (to about 7.5" in the top ruler).

Deleting a Field

Delete a Field:

- 1. Click on the field (**RQ_PRTY_TY**) to highlight it.
- 2. Press the Delete key

OR

Right click in the field and select Delete

Field Movement

- 1. The Simplest form of moving fields is by clicking on the field and dragging it to the new location.
 - Click on the **Priority** text object (resize to reduce the empty space).
 - \circ Drag to the right until the left edge is aligned with the 5" mark.

2. Multiple fields can be moved by holding the shift key down while clicking on the fields. This will highlight the fields which can then be moved or sized or formatted all at the same time.

The click and drag feature, as well as the adjustment of the box size, are done to the highlighted box with the four dark marks on the edges (anchor box). Multiple fields may be copied or cut as a unit as well.

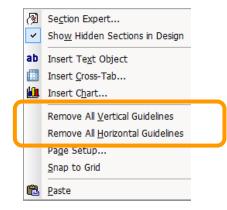
- 3. Multiple aligned fields can be moved as a unit by "attaching" Guidelines to the fields. This can be done both horizontally and vertically using the rulers at the top and left side of the report (if this option is turned on).
 - In the top ruler, click near the 6" mark and hold, moving slightly if necessary, until the dotted line meets the left side of the **Problem** text box. Release
 - The left side of the text box will appear red and there is a pointed box in the ruler section.
 - The left edge of the RQ_PROB_TY field will likely be red as well but if not, click on the field and drag to attach the left side to the guideline.

<u> ////////////////////////////////////</u>	<u>///</u>
Problem	-

• To move the fields attached to the guideline, click on the ruler marker and drag it to the new location. (about 6 5/8") This will move any fields attached to the guideline.

Note: Caution should be used with guidelines if there are a number of fields in the report. You may attach fields you had no intention of moving. This is a problem that can affect Lucity Detail reports.

- To remove a marker, click on it and drag it up and away from the ruler. Then, release your mouse.
- All markers can be removed with a right click in the ruler or body of the report and then selecting either *Remove All Vertical Guidelines* and/or *Remove All Horizontal Guidelines*.



Add a Text Object

Make sure there is room to add the text object.

In the example we will create space between the Status Date and Priority:

- Reduce the size of the Status text object to close up the empty space.
- Reduce the **RQ_STAT_TY** field (right edge to 3 1/4").
- Move the Status Date text object and @StatDate field to the left (right edge 4 1/8").

This has opened up space to add a new text object.

To add a new text box:

- 1. Click (release don't drag) on *Insert Text Object* **ab**. The cursor turns into a plus sign.
- 2. Click on the location where the box is to be inserted. Just to the right of the **Status Date** text object.
- 3. Type in the desired text (Follow-Up).
- 4. Click out of the box when you are finished.
- 5. Resize to close up the empty space. In the example it is overlapping the **Priority** text object. It doesn't hurt anything but may hinder your design efforts later.

Status Date Follow-Up Priority

Adding Fields

To add a field, you may need to make room by moving or removing existing fields.

- 1. In our example, we'll change the "Priority" column to "Category".
 - First, you'll edit the **Priority** column header to read **Category**.
 - The **RQ_PRTY_TY** field has already been deleted.
 - Now, you'll add the new "Category" field (as shown below).
- 2. You'll need to find out the name of the "Category" text field.
 - Go back to the *Requests* module and locate the field that is to be shown in the report.
 - With your cursor in the field, press **Ctrl** and then right click.
 - Select Field Definition. Some fields, including the Code field, have an additional option, Field Properties. This option offers additional information such as the filed Mask and editing options.
 - In the example, you can see that the table name is WKREQ and the "Category" field name is RQ_CAT_TY.

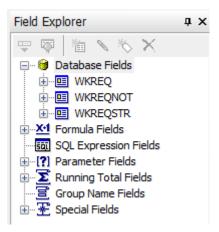
1	
	Field Definition
	Carlier C. L. T. J.
	Caption: Category Text
	Field Name: RQ_CAT_TY
	Table Name: WKREQ
	Definition Lock: 🔲
	Lucity Def Save Close
	The Category field is a code-description, pick list field that allows you to select a category for the request.

Note:

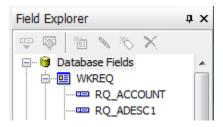
Sometimes fields that have a code box and a text box will only show the field definition of the code portion. The only difference with the text portion is that the field name would end in TY rather than CD.

Sometimes if the box is pulling information from a different module, the field definition will not show up or the given field name may not be accurate. It may be a connecting field to pull the correct data from another table.

- 3. Return to the report. Then, complete the following steps to add the new field.
 - Open *Field Explorer*. (Also under "View" in the top menu bar) this may already be open on the right of the report.
 - Open Database Fields (click on the + sign).



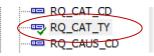
• Open the **WKREQ** table (click on the + sign).



• Click and drag the **RQ_CAT_TY** field and place it in the *Detail* section under the **Category** column heading.

Category	
RQ_CAT_TY	۲ د

When a field is used in the report, a check shows up next to it in the Field Explorer.

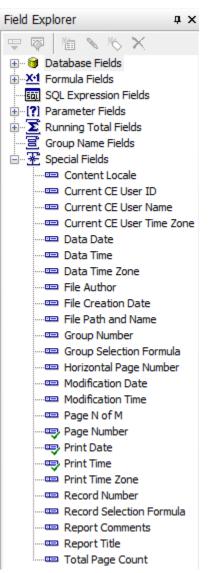


In the example we will now add the X and Y Coordinate fields:

- 1. Change the Address text object to X Coord.
- 2. Reduce the box width to close up the space.
- 3. Add another text object called **Y Coord** to the right of the **X Coord**.
- 4. Right align both the X and Y Coord text objects.
- 5. Delete the **@Location** field.
- 6. Add the appropriate fields below the X and Y column headers.

Special Fields

There are a number of "Special Fields" that Crystal Reports provides. In Field Explorer expand Special Fields.



The report is currently using **Page Number**, **Print Date** and **Print Time**. If the *Summary Info...* had been filled out for the report then several of these fields would have been available to bring into the report (**File Author**, **Report Comments** and **Report Title**).

The **File Path and Name** could be a helpful field to place in the Report Footer. This would tell you exactly where the report is located and the exact report name (**LC_ReqSum.rpt**).

Copying Fields

A field that is used in a report can be copied and used elsewhere in the report. There are various methods for doing this.

- Click on the field(s) and:
 - Right click *Copy* and then right click *Paste* to the new location.
 - Or Ctrl C to copy then Ctrl V to paste in the new location.
 - Or for a single field hold Ctrl, click and drag to new location and release.

Formatting Fields

General Formatting

If you want a field to stand out, there are various tools you can use. You can change the lettering size, font, or color of the text as well as change it to **boldface**, *italics*, or <u>underline</u>. The options are located in the Formatting Toolbar (pictured below).

Formatting can also be accessed by right clicking on the field and selecting Format Field...

Click on the box containing the text you wish to change. Then, select the options to be used.

If partial text is to be changed, double click on the box and then click and drag over the part that is to be changed.

In the example report change the column header text objects to be **Bold**.

- 1. Hold the shift key down and click on all boxes that need changing.
- 2. Click on the **B** (for bold) in the toolbar.
- 3. Resize any boxes to accommodate the bold text.

Preview the report.

Request#	Record Date	Status	Status Date Follow-Up	Category	Problem	X Coord	YCoord
2006-00013	4/5/2006	Completed	6/12/2006	Commercial Collection	INFO REQUEST -	43.64	-116.24

The X and Y coordinates are showing with two digits to the right of the decimal and the actual values in the record require 8 digits.

Loc X Coord.	43.63871944
Loc Y Coord.	-116.24135134

Number Formatting

Number fields may require formatting for many reasons such as decimals, rounding, negatives, field size where the value is showing ##### or the numbers are cut off. The field size can either be increased, or the field can be reformatted to remove the decimals.

To change the format of the RQ_X_COORD field:

1. Right click on the field and select Format Field....

	Field: WKREQ.RQ_X_COORD
Ą	Forma <u>t</u> Field
Ś	Format <u>P</u> ainter
₽	Highlighting Expert
1	Browse Field Data
8	Select Expert
	Insert •
	Move •
	Size and Position
Ж	Cut
Ē,	Сору
ĉ	Paste
	Delete

Format Editor

23

Common Border Font Number Hy	perlink
Style System Default Number Format -1123 -1,123 -1,123,00 -1,123,000 -1,123,0000 (1,123) (1,123) (1,123,00) (1,123,000) (1,123,0000) Custom Style	Currency symbol (system default): Display Currency Symbol Fixed Floating
Customize	
Sample:	-55,555.56

2. Click on *Customize*...

- 3. Click on the down arrow next to "Decimals:" and select the correct option for the number of digits.
- 4. Repeat for "Rounding".

Custom Style					
Currency Symbol Number					
Use Accounting Format					
Suppress if a	Zero	<mark>.×</mark> 2	Decimal Separator:	. *2	
Decimals:	1.00000000	▼ <u>×2</u>	📝 Thousands Separa	tor:	
Rounding:	0.0000001	▼ ×2	Symbol:	×-2	
Negatives:	-123	▼ <u>×2</u>	Leading Zero	X*2	
Reverse Sign for Display			Show Zero Values as:		
Allow Field Clipping			<default format=""></default>	-	
Sample:			-55,555.5555556	3	

- 5. Select OK to close the Custom Style dialog.
- 6. Select OK to close the Format Editor dialog.

In the preview tab the X Coordinate value is now showing:

X Coord

7. Increase the field size with the sizing handles on the field.

Another issue that sometimes occurs is the clipping of numbers. This is where you see incomplete numbers instead of the ###.##. This is not recommended. This option is located in the Custom Style dialog box.

Allow Field Clipping

Make sure the "Allow Field Clipping" box is **not** checked.

Copying Formatting

The Y Coordinate will need similar formatting. The *Format Painter* can be used to copy the X Coordinate formatting onto the Y Coordinate field as follows:

- 1. Click on the **RQ_X_COORD** field.
- 2. Select the Format Painter in the Standard Toolbar 🚿 .
- 3. Click on the RQ_Y_COORD field.
- 4. Increase the field size to accommodate the additional digits.

X Coord Y Coord 43.64000000 -116.24000000

Note: Many cost fields within Work reports are fields that will be "Hidden" if the person running the report does not have the proper security. The way this is achieved turns the number field into a "Text" type field thus normal "number" formatting does not work on these fields.

Alignment of Fields

- 1. Shift click on all fields to be aligned.
- 2. Right click on the field you want to size and align with, the darker markers will show up on the field you select.
- 3. To size, click Size > Same Height.
- 4. To align, repeat steps 2 and 3, clicking *Align > Tops* (or Bottoms, see what looks better).
- 5. Do this for both the Column Headers and fields in the Detail section.

Note: If a section has only a single line of fields, then all fields can be selected by right clicking in the left margin of the section and selecting "Select All Section Objects". This option wasn't available in our example due to the line in the Detail section.

Using Formulas

Crystal provides a way to create formulas that can be used in record selection, conditional formatting, conditional suppression and calculations to name a few.

Date and Time Fields

In Lucity the date and time fields are a *DateTime* type field. If the Date field is brought in directly with the Options (File > Options > Fields > Date and Time... > Date and Time) set as *System Default Short Format*, the date field when brought directly into the report will look like this:

2/20/2014 12:00:00AM

The time portion is not a good value.

In the same way the Time field will look like this:

1/1/1900 12:01:00PM

The date portion is not a good value.

In the Options Field Formatting the **Date and Time** type field could be set up to always show a date (without time) but then the time field would also show as a date.

The proper way to handle the *DateTime* fields is with a formula. The formula will take out the required portion of the field.

Note: Formula fields begin with the @ symbol like the Status Date .

Date Fields

In our example, we will add the Follow-Up Date.

- 1. Within *Field Explorer*, right click on *Formula Fields*.
- 2. Select New.
- 3. Type in the name. For our example, we've entered "FollowUpDt".

ime 🗾		
me: FollowUpDt		
OK Cancel		
2		

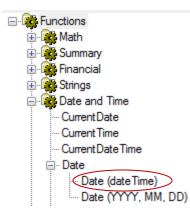
4. OK

This will open the Formula workshop.

🕌 Save and close 🛛 🔒 Save	□ -] / ?	4
]≫ ⊨⊂ ⊂ 🐺 👫 👍 🦻	🕻 🐐 🎋 🔯 📳 🏦 🗮 Crystal Syntax 🔹 Exceptions Fi	or Nulls 🔹 🖊
Report Custom Functions Repository Custom Functions Formula Fields Formula Fields Location Xo Fallow UpDt Location Xo Fage StatDate SQL Expression Fields Selection Formulas	Image: Seport Fields Image: Seport Field	S ⊡- ि Operators
E Formatting Formulas		~

It would be helpful to have the Hide/Show workshop tree highlighted as well as the Field Tree, Function Tree and Operator Tree.

- 5. Expand the Function Tree, Click the plus sign (+) in front of Functions.
- 6. Expand Date and Time.
- 7. Expand Date.
- 8. Double click the Date(dateTime) option.



9. The following formula will show up in the lower box:

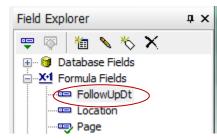
Date()

- 10. In the Field Tree expand the ODBC database. In this case it is Work.
- 11. Expand the WKREQ table.
- 12. Make sure the cursor is flashing between the date parenthesis in the formula box then in the *Field Tree* double click **RQ_FLLW_DT**.
- 13. The final formula will look like this:

```
Date({WKREQ.RQ FLLW DT})
```

14. Click Save and close.

The new formula will now show under the Formula Fields in Field Explorer.

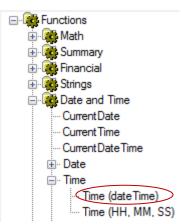


15. Drag the new formula field into the *Detail* section, under the **Follow-Up** column header.

Follow-Up

Time Fields

A Time field which is also a DateTime type of field should also be set up in a formula. It would be created like the date formula except in the *Formula Workshop* in the *Functions Tree* the Time option would be used to create the formula.



Note: Once the date has been pulled from the DateTime field in the Date formula it will follow the formatting in Options for Date. In a like way the Time formula will now format as a Time field. This can be changed in a general way out in Options or specificly with the right click Format Field... option.

Documentation Comments

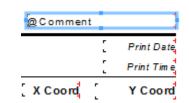
Comments can be made within the Formula Workshop to help with documentation. The comments can be in a separate formula documenting all of the changes for the report or they can be specific comments to a formula. Each line of a comment must be preceded by two forward slashes //. This will change the font color (default green can be changed in *File > Options > Formula Editor*).

A general comment will be added to the example.

- 1. Right click on Formula Fields and select New.
- 2. Type in "Comment".
- 3. In the lower section, type //.
- 4. Next, type whatever clues you need to remember what was done. We'll type:

"Removed Priority and Address. Added Follow-Up date, Category, and X & Y coordinates."

- 5. Select Save and Close.
- 6. Drag the **Comment** formula to whichever section you will see it, like the *Page Header*. This will not show up in the Preview mode of the report but it is there for you to reference in the future.



Note: Formulas created in the Formula Workshop can be typed in without using any of the "Tools". The Tool Fields, Functions and Operators may also be dragged in as opposed to double clicking.

Inserting Lines and Boxes

Lines

When reports have a great deal of information, it is often helpful to use lines to break up the data. This makes it easier to read.

- 1. Click on Insert Line 2. This turns the cursor into a pencil.
- 2. Place the pencil point wherever you would like to insert the line in the report. Then, drag the line across the screen until you have reached the desired length.
- 3. The line characteristics can be modified by right clicking on the line and selecting *Format Line*. Several line samples appear below

4. If any of the fields are able to grow, then in the *Format Line* dialog (right click on the line) select "Move to Bottom of Section when Printing".

Format Editor	×
Line Border: Style: Width: Color:	Single
🔽 Move to	Bottom of Section when Printing
Suppres	s Repeat on Horizontal Pages
Read-or	ly Lock Position and Size

This usually solves any growing issues, but sometimes the line should be given its own section instead. A new section can be added by right clicking in the left margin next to the section and selecting *Insert Section Below*. These options can also be selected by typing the underlined letter.

Insert Section Below

the "I" is underlined.

All Crystal sections allow multiples. They will show with a letter behind the section designation. Example: Details a, Details b, Report Footer a, Report Footer b...

Boxes

Another option is enclosing data in a box. In the example we will place a box around the **Total Requests** text object and field (**#TotReq**).

- 1. Click on Insert Box 🔊. This turns the cursor into a pencil.
- 2. Place the pencil point wherever one corner of the box should be (top left of **Total Requests** box) and then drag diagonally to the other corner (bottom right of **#TotReq** box) and click.
- 3. Right click on the box line and select Format Box...
- 4. Select *Fill:>>Color*:
- 5. Use the drop down arrow to select Yellow.
- 6. Click OK

Format Editor	×
Box Rour	nding
Border:	
Style:	Single
Width:	
Color:	Black -
E Drop Sha	300W
Color:	Yellow 👻
V Always C	lose Border
Extend to	Bottom of Section when Printing
Suppress	Repeat on Horizontal Pages
Read-on	y Elock Position and Size
-	OK Cancel Help
Total Req	uests] #TotReg

"Growing" Fields

Sometimes, the data in a field is cut off and there is no more horizontal room to increase the field size. In this case, it is helpful to allow the information to be shown in multiple lines. This can be done with the "Can Grow" option.

To add or delete the "Can Grow" option, complete the following:

- 1. In the example right click on the field (**RQ_CAT_TY**).
- 2. Select Format Field.
- 3. On the *Common* tab, check the *Can Grow* box.

Format Editor		X		
Common Border Font	Paragraph Hyperlink			
Object Name:	RQCATTY1			
Tool Tip Text:		×-2		
Read-only	Lock Position and Size			
Suppress		<u>×2</u>		
Suppress If Duplicated		<u>×-2</u>		
Can Grow	Maximum number of lines: (Enter 0 for no limit) 0	<u>*2</u>		
Text Rotation:	0 v degrees			
Horizontal Alignment:	Default	X-2		
Display String:		X-2		
CSS Class Name:		<u>×2</u>		
Repeat on Horizontal Pa	Repeat on Horizontal Pages			
Keep Object Together		<u>×2</u>		
Close Border on Page B	reak	× •2		
Sample:				
xxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
	OK Cancel	Help		

Report Manipulation

Lucity typically provides a Summary report and a Detail report for each module. The Summary report is great for a quick overview of many records. The Detail report usually shows all of the fields within a module. It is much easier to delete fields and sections and move things around than it is to add information. We'll go over the steps to manipulate a report below:

- 1. Copy the **ReqDetail.rpt** report. This copy is just to "play" with so does not need to be exported or saved. (Copy and Paste)
- 2. Open ReqDetail Copy.rpt.
- 3. Removing Sections:
 - Most Sections can be removed by right clicking to the left of the report and selecting *Delete Section*.
 - Right click on the left margin of the *Detail g* section and select *Delete Section*. The *g* section is removed and the *Details* sections will now rearrange their lettering. The old h section is now g.
 - Some Sections cannot be removed but the information within them can be deleted.
 - Right click in the left margin of the *Page Header* section and choose *Select All Section Objects*.
 - Then press delete.
 - Another option is to suppress a section.
 - Right click in the left margin of the *Detail c* section and choose Suppress (No Drill-Down).
- 4. Moving fields around within a report can be challenging. In this example, *Detail a* section, we will move Home Phone and Work Phone up to just below Phone Number.
 - To make room for these fields, place the cursor to the left of the report on the right edge of the ruler strip where the field is to be inserted. You'll see a single line with double arrows.
 - Click, hold, and slightly wiggle, pulling to the right as you release to create a section break.
 - Click and drag the section break line to make room for the new fields.
 - Hold the Shift key and click *Home Phone*, *RQ_HM_PHN*, *Work Phone* and *RQ_WK_PHN* to highlight the fields to be moved.
 - Click and drag the fields beneath *Phone Number*.
 - Right click in the *Details* section next to *Phone Number* and select *Merge Section Below*.

Note: The Merge function may have caused the check next to **Do Not Disclose** to "disappear". Right click on the check box and select Move >> To Back.

- 5. Report sections can be switched by clicking and dragging to the new location.
 - Click and drag section *Dk* to beneath *Da*. This is now the new *Db* section.
- 6. The report page orientation is another way to add room or shrink a report. Landscape mode is always helpful if you need to add a couple of fields or see all of the text on one line. This option is found in *File > Page Setup. . . > Orientation*.

Removing Parameters

Parameters are special fields that query the user for information to be used in the report before the report will run. Common parameters used in Lucity reports include *subtitles* and *date queries*. These can be removed by clicking on the Parameter field and selecting *Delete*.

The report no longer uses the parameter field, but the parameter exists in *Field Explorer*. Unused parameter fields have been an issue in some of the Web reports. To permanently remove the parameter field you must right click on the specific parameter field in *Field Explorer* and select *Delete* or click the field and press the *Delete* key. Parameter fields are recognizable by the "?" at the beginning of the field:

?Report Subtitle

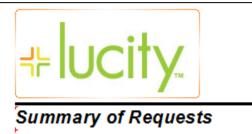
Inserting an Agency Logo

You may want to have your agency logo appear on your customized reports. This helps identify the report as one of your own. To insert an agency logo, complete the following steps:

- 1. You may need to make space in the report for your logo.
 - Right click somewhere to the left of the report in the **Page Header** section and select *Insert Section Below*.
 - In the new *PHb* section left margin, click and hold, the cursor should turn into a hand.
 - Drag up into the *PHa* section and release. The two sections have switched places.
 - Place the cursor over the line between sections *PHa* and *PHb* (it should turn into double horizontal lines with an arrow pointing up and one pointing down).
 - Click and drag down to increase the *PHa* section size so that it can accommodate the logo.
- 2. To insert a logo into the *Page Header a* section, perform one of the following steps:
 - Click on *Insert* and select *picture*.

OR

- Click on the Insert Picture icon ¹²
- 3. Then browse out to the location of your logo file and double click to add it to the report. File format should be bitmap, TIFF, JPEG or PNG.
- 4. You can resize the logo by clicking and dragging the corners and edges. You can change the placement of the logo by clicking and dragging the entire picture.
- 5. Resize sections as necessary.
- 6. Finally, right click in the **Page Header a** section and select Merge Section Below. You now have one **Page Header** section.



Adding a Report to the Module

To use any new or revised reports within Lucity, you'll need to add them to the module where you wish to view them. The reports need to stay within the "family" for which they were created. For example, you may not run a Work report in Sewer modules.

- 1. Open the desired module. (ex. Requests)
- 2. Click on *Reports* 🛄 .
- 3. Select Add.
- 4. Click on the box with three dots _____ next to Report File Path.
- 5. Find the report directory with the new report and double click on the report (LC_ReqSum.rpt).
- 6. Enter the report name and give it a description.

Report Name:
Request Summary Report
Description: (255 characters Max)
Request summary with Category, Follow-Up, and X & Y.

7. Select Save. This report is now available to be used within the module.

Accessing Reports in Lucity

Within a module you may use any of the reports available in the reports dialog box. Frequently used reports can be added to the Quick Reports option (drop down arrow next to the Report icon). This can be set up in the Reports dialog.

Right click on the Report Title and select the type of Quick Report you would like saved. This setting is on a User Login basis. This allows various users to set up their own Quick Reports in whichever manner they'd like to see them.

View Report	
Print Report	
Export Repo	rt
Add	
Edit	
Delete	
Properties	
Add to Quick	Reports -This Rec Only
Add to Quick	Reports - Filtered
Add to Quick	Reports - All Records
Remove from	- QuideReports

The report will be displayed with the hand 🌇 icon before the report name.

Another means to access a frequently used report is to simply add a number in front of the name to bump it to the top of the list.

💾 Dialog	
Reports:	
.	1-Work Request/Work Order Review
	Affected Utility Work History Report

Datasource

If standard reports are copied and pasted instead of exported and then run or verified in the Crystal software, the original Lucity connection information is maintained, but the connection information specific to the customer's database won't be available. Thus, the report will be unable to find the proper database tables. You should receive a warning message similar to the following - Select *No*:

Remove Table			×
The database table "SWPUMPLH"	cannot be fou	und. Proceed to rei	move this table from the report?
Γ	Yes	No	

If you receive the warning message displayed above, you have the following options:

- Delete this copied report and export the report from the Lucity module. This process was explained previously.
- You can manually point each table in the report to the correct datasource.
- You can Batch Verify only available with the Development version of Crystal XI. (Not discussed)

The above options will repoint the connection strings. This will allow you to run the report in Crystal Reports, which is the quickest way to test the report modifications.

Set Datasource Location

Below, we've described the steps needed to set the Datasource Location for reports with database connectivity errors. Remember, you'll need to complete these steps if you've performed a "Save As" or copied and pasted a report and received a warning message informing you that certain database tables could not be found.

- 1. Within the open report, click on *Database* in the toolbar at the top of the screen.
- 2. Click on Set Datasource Location. The following dialog will appear:

Set Datasource Location	×
Change the location of the data source by selecting the current database (or table) and choosing the database (replace it with. Then click Update.	or table) to
Current Data Source:	
Replace with:	
Current Connections Favorites Greate New Connection Repository	Update
Close	Help

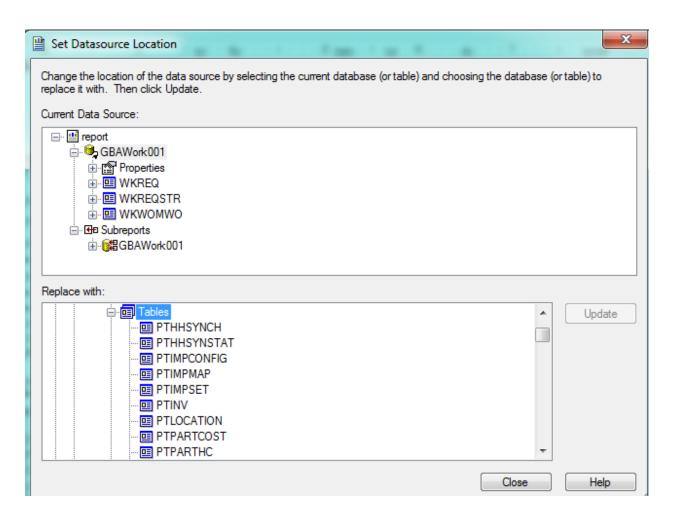
- 3. In the bottom window, open the Create New Connection folder
- 4. Open ODBC. You'll see the dialog displayed on the following page:

Data Source Selection Choose a data source f button	rom the list or open a file dsn from the browse	
Select Data Source:	۲	
Data Source Name:	GBAWater730 GBAWater740 GBAWater750 GBAWater760	^
	GBAWork001 GBAWork002 GBAWork015 GBAWork140 GBAWork145 GBAWork710 GBAWork720	-
Find File DSN:	\odot	
File DSN:		
Enter Connection String:	\odot	
Connection String:		

- 4. In the ODBC dialog, click on the correct Datasource name and then click *Finish*.
 - For example, here we've selected GBAWork001.

Notes:_____

5. You'll return to the Set Datasource Location dialog. Now, open Tables in the bottom window.

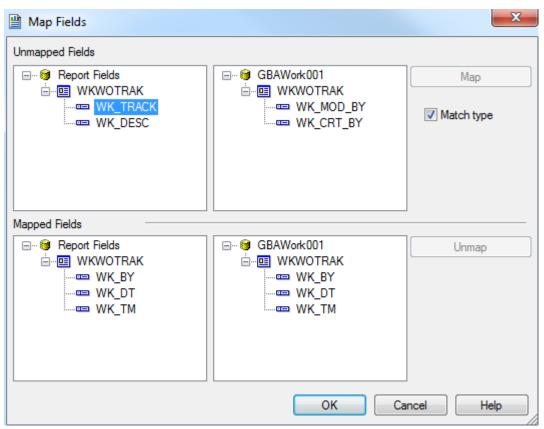


- 6. Next you'll have to click on each table in the top window (*Current Data Source*) and find its match in the bottom window (*Replace With*). Click on the matching table name and then press *Update*.
 - As you can see in the example below, we've selected the **WKREQ** table in both windows.

Set Datasource Location		x
Change the location of the data source by selecting the current database (or table) and choosing the replace it with. Then click Update.	he database (or table) to
Current Data Source:		
epot		
⊟ SBAWork001 ⊕ martines		
i≟. ⊞e Subreports i∄. j∰eGBAWork001		
Replace with:		
	*	Update
WKPTASK		
WKREQLOC		
WKREQTRAK	-	
	Close	Help

- 7. After updating each table listed in the top window, click *Close*.
 - Make sure to perform these steps with the Subreport tables as well!!
 - If the matching table names don't appear in the bottom window, open the **Synonyms** or **Views** tables and look for them there.

8. If a field type has changed or been removed from the table since the report was last updated then there will be an issue with Field Mapping and you will see something similar to this:



- Sometimes unchecking the "Match type" checkbox will show the field to Map To but sometimes it doesn't.
- In Lucity 7.5 Work module > Tracking grid, the Tracked Item and Description fields were changed from a Text type field to a Memo type field. There was no option to match the Unmapped Fields to so selecting OK allowed the rest of the mapping to complete. When going into the Tracking subreport, these fields had been removed.

tem Tracking	Description	<u>By</u>	<u>Date</u> <u>Time</u>]
		W K_BY	@On @At	

• These fields needed to be manually brought back into the report with the new field types. The fields have the same name; they are just a different type of field that allows more data.

Converting Desktop Reports to use in the Web

Custom Reports that have been created for the desktop version of Lucity will NOT work in the Web application as is. To convert a report from a standard Lucity report to a Web report, complete the following steps:

- 1. Open the report in Crystal Reports.
- 2. Go to Database>>Set Datasource Location.
 - SQL Server Clients select OLE DB (ADO)>>Make New Connection.
 - Oracle Clients select Oracle Server.

Set Datasource Location	2
Change the location of the data source by selecting the current databas choosing the database (or table) to replace it with. Then click Update. <u>Current Data Source</u> :	se (or table) and
GBAMS-DEV-01 GBAMS-DEV-01 GBAMS-DEV-01 GBAMS-DEV-01 GBWKREQ GBWKREQSTR GB Subreports GBGBAMS-DEV-01 Replace with:	
Clap Cle DB (ADO) Cle DB (ADO) Cle CDB (ADO	Lipdate
 	

3. If you are using SQL Server you will then be prompted to select a provider. Use the Microsoft OLE DB Provider for SQL Server as shown below.

Select a provider from th	ne list or select a data link file.	
<u>P</u> rovider:	Microsoft OLE DB Provider for D Microsoft OLE DB Provider for In Microsoft OLE DB Provider for In Microsoft OLE DB Provider for O Microsoft OLE DB Provider for S Microsoft OLE DB Simple Provider	ndexing Serv Internet Publis IDBC Drivers IDAP Service Intole Intole Searc QL Server
Iles Data Itali Dia	×	
<u>U</u> se Data Link File: Microsoft Data Link File:		

- 4. Next, enter the Connection information.
 - For SQL Server, include the SQL Server Name, User ID, Password, and Database.

	formation to log on to the chosen data source.	
<u>S</u> erver:	MYSERVER\MyInstance	~
<u>U</u> ser ID:	GBA_USER	
Password:	•••	
<u>D</u> atabase:	GBAWork	~
ntegrated Security:		

• For Oracle, include the Service, User ID, and Password.

<u>S</u> ervice:	MYINSTANCE
<u>U</u> ser ID:	GBA_USER
<u>P</u> assword:	•••
<u>2</u> S Authentication:	

5. Once you create a connection you will need to individually (manually) map every table from the report one at a time. Don't forget the tables in the Subreports!

Note: Reports must be posted to the web server in the \Reports directory in order to be available online. There you will see sub-directories such as \Equip\ or \Work\. Reports should be placed in the appropriate sub-directories.