

Crystal Reports for SAP Business One

Version 8.8 family, 9.0 family, and beyond

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Section 1



CRYSTAL REPORTS
For SAP Business One

Introductions and Course Overview







Introduction



Carl Lewis

- Vision33 Chief SAP Business One Ambassador
- General Manager Vision33 TOTAL Care (6 years)
- 15+ years experience with SAP Business One
- Founding Chairperson SAP Business One Partner Advisory Committee (PAC)
- Founding Chairperson ASUG SAP Business One Special Interest Group (SIG)
- 30 + years experience in non-profit, charitable organizations, and industry professions
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Session Objectives & Assumptions



Course Objective

An introductory course in building and modifying Crystal reports in the SAP Business One environment. This instructor led course will provide you with the core skills, tools and examples to start building your own SAP Business One reports and layouts within SAP Business One.

Assumptions

- You an experienced SAP Business One user
- You have a basic understanding of the SAP Business One database
- You are comfortable and may have used other report writing tools against a database
- You are not an expert but are open to learning more about it
- You want to
 - Write your own reports
 - Customize existing reports to meet your specific needs





Course Agenda



- Section 1 Introductions and Course Overview
- Section 2 Your Training Environment
- Section 3 Overview of Crystal Reports in Business One 8.8
- Section 4 Report Administration
- Section 5 Understanding the Business One Data Model & Data Source
- Section 6 Overview of the Reports Designer
- Section 7 Using Formulas
- Section 8 Filtering Report Data
- Section 9 Grouping & Totaling Data
- Section 10 Formatting your Report
- Section 11 Using Parameters
- Section 12 Sub Reports
- Section 13 Editing Marketing Document Layouts
- Appendix B Crystal Reports Cross Tabs & Charts
- Appendix E Crystal Reports Resources





Section 2



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Your Crystal Reports Designer Environment (basics)







Basic Installation and Setup of Crystal Reports Designer



It is typical for Crystal Reports Designer to be installed and operationally validated by your implementation and consulting team. However, if you do not have Crystal Reports Designer installed the following are the basic steps. It is my recommendation that certified SAP Business One consultant perform these tasks. Procedures and processes change from time to time. Certified SAP Business One professionals are best equipped and informed to perform these tasks.

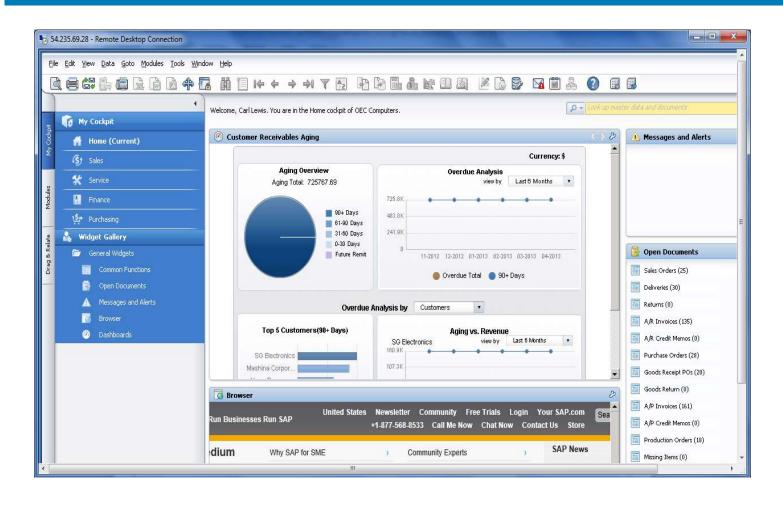
- 1. Validate that SAP Business One is operational.
- 2. Crystal Reports Designer is a separate installation (it has it's own exe file for install purposes) and is not part of the SAP Business One Wizard. Locate this Crystal Reports Designer exe.
- 3. Execute the install exe file. It is recommended that this been done on your Remote Desktop Server in Administrative mode.
- 4. The program will check for these pre-requisites. If one or more are not found the install will fail. Please be certain all pre-requisites have been installed and repeat the installation process.
- 5. Install Crustal Reports Designer
- 6. Install the SAP Business One CR Addin (this is found in the packages folder of the expanded SAP Business One rar file (compression software).
- 7. Install the B1 Integration Component. (also found in the packages folder).
- 8. Make certain that the SAP Business One 32 bit DIAPI has been installed also.
- Testing the install
 - 1. Open Crystal Reports Designer
 - 2. Obtain ab SAP Business One Connection
 - 3. Validate that the CR Addin is operational





Success! Ready To Go!









Section 3



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Overview of Crystal Reports in Business One Along with some history...

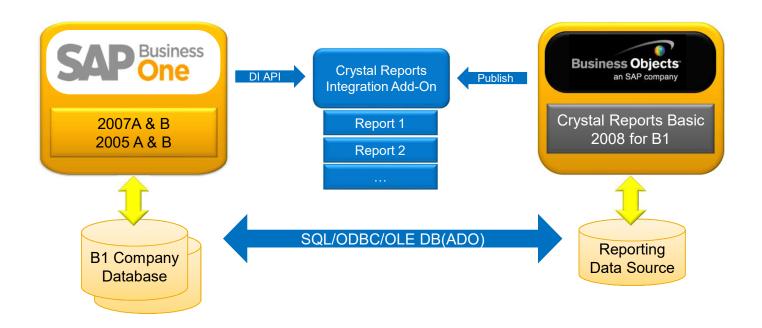






Crystal Reports Integration in SAP Business One 2005 or 2007 (the early years)



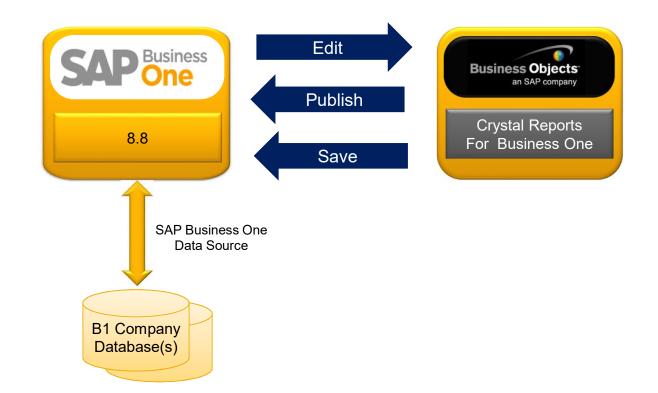






Crystal Reports Integration in SAP Business One 8.8 and all versions thereafter



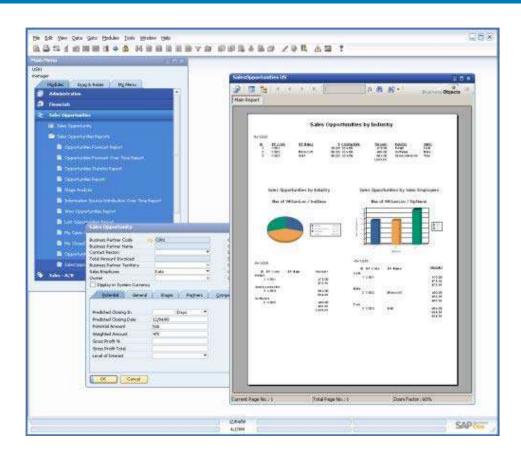






Enhanced Integration with Crystal Reports





Enhancements:

- Fully integrated in core application (No Add-on administration)
- Support marketing document print layouts
- SAP PLD is still compatible so migration to Crystal Reports is at your pace
- Report and Layout
 Management combined in one place
- Business One specific data source for Crystal Reports Designer (SAP Business One)
- Familiar selection criteria for users
- Drill down from reports to Business One data/transactions

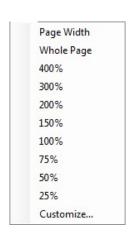


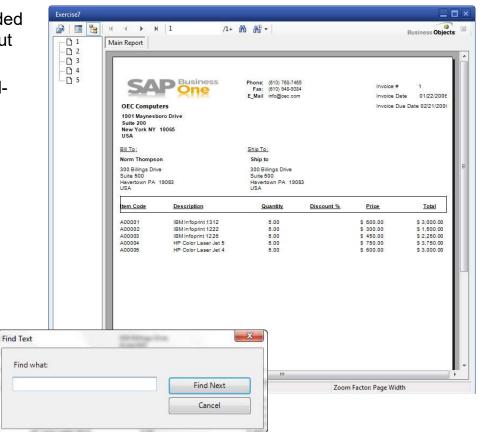


Integrated Crystal Reports Viewer



- Crystal Reports viewer will be loaded if a Crystal Reports designed layout is used
- Sorting, grouping, filtering and drilldown reporting
- Page navigation, text searching, zoom-in/zoom-out, exporting functions



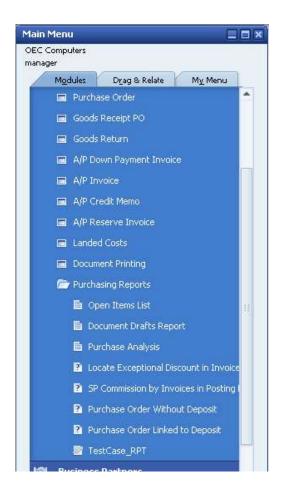






Menus & Report Parameter Selection





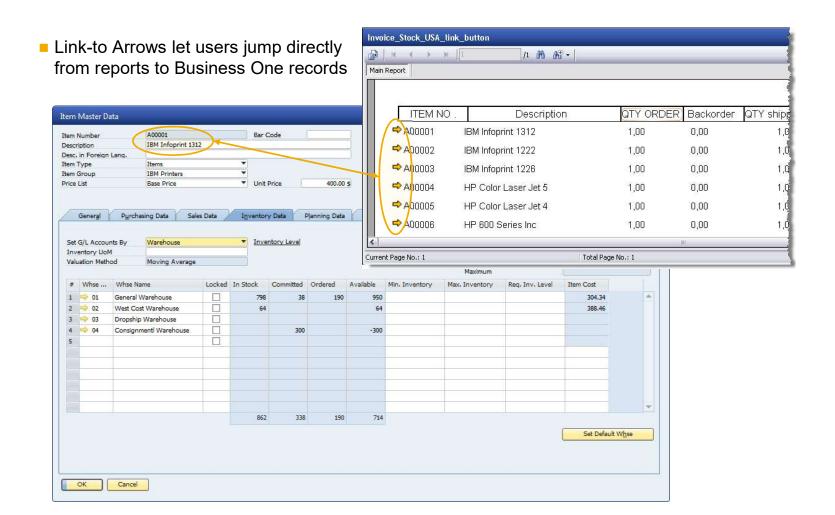
| Date | | Posting Date 🔻 | | |
|-------------------|------|----------------|----|------------|
| Date | From | 04/01/2006 | To | 06/08/2009 |
| Date | | Posting Date 🔻 | | |
| То | | 24 | | |
| General: | | | | |
| Money | | | | |
| DateTime | | | | |
| Int | | | | |
| String | | | | |
| Country | | US 🔻 | | |
| State | | → | | |
| Business Parnter: | | | | |
| Single BP | | | | |
| Multi Customer | | | | |
| <u>Items:</u> | | | | |
| Single Item | | | | |
| Multi Items | | | | |
| Item Range List | From | _ | To | * |
| Multi Warehouse | | | | |
| Accounts: | | | | |
| G/L Accounts | From | 6 | To | |
| Multi Account | | | | |
| Sales(A/R) | | | | |
| Enter MYList: | | | | |





Interactive Drill Down Reporting





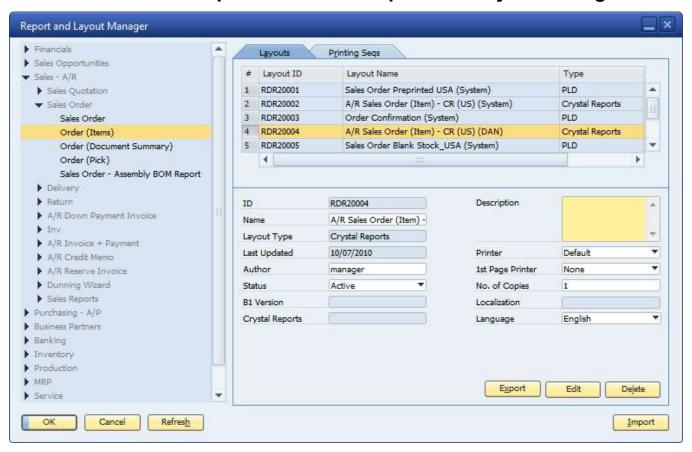




Report and Layout Management Combined



■ Administration → Setup → General → Report and Layout Management



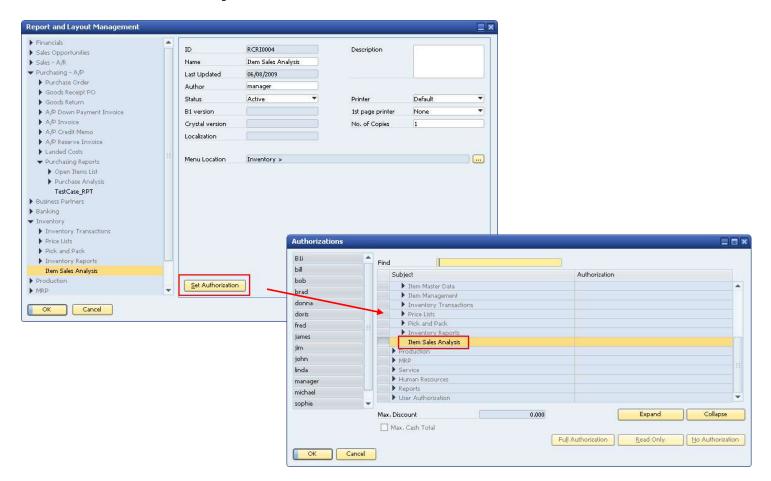




Report Authorization Centralized



Administration >System Initialization >Authorizations >General Authorization







Print Sequences



- Enables a user to print a set of related documents (layouts) when a specific marketing document is printed.
- Multiple sequences can be defined

Default Seq

Layout

Sales Quotatio ▼ A/R Sales Quotatio ▼ 1

(Default)

Cancel

A/R Sales Order (I: ▼ 1

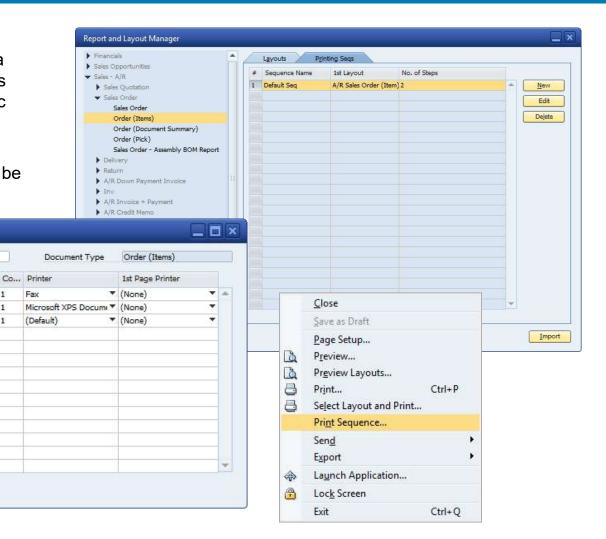
Sequence Details
Sequence Name

Sales Orders

Object

OK

3

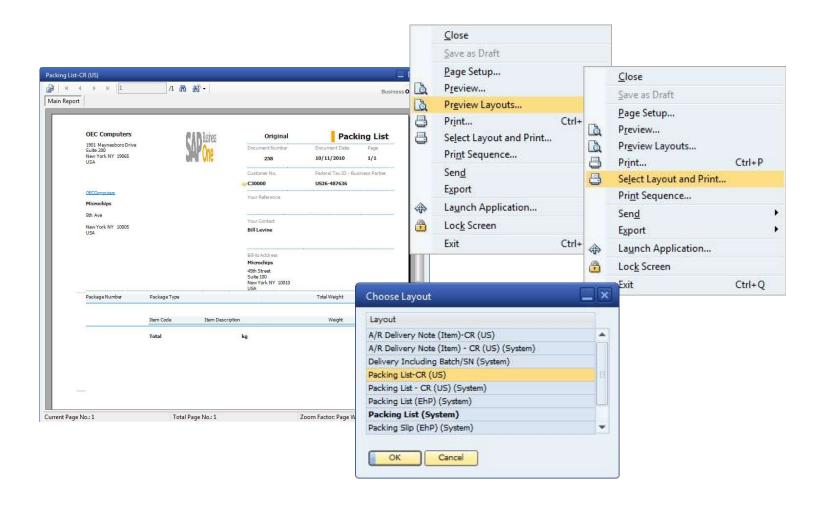






Override Default Layout for Print or Preview





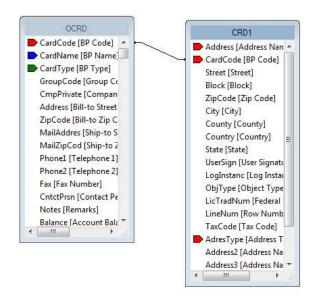


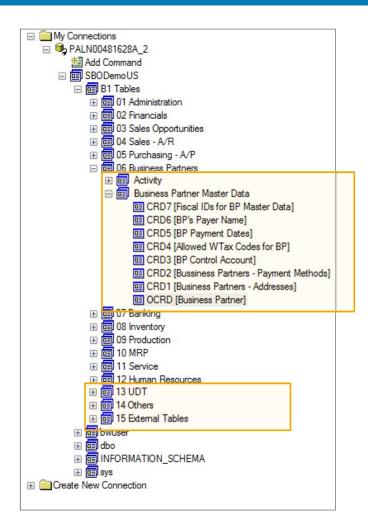


More Friendly Reporting Data Source = (SAP Business One)



- Tables display in a hierarchy tree sorted like Business One modules
- Table described in native language
- Default join between tables selected are automatic
- UDT/UDF and Add-on tables are now included in the data source(category 13, 14 & 15)



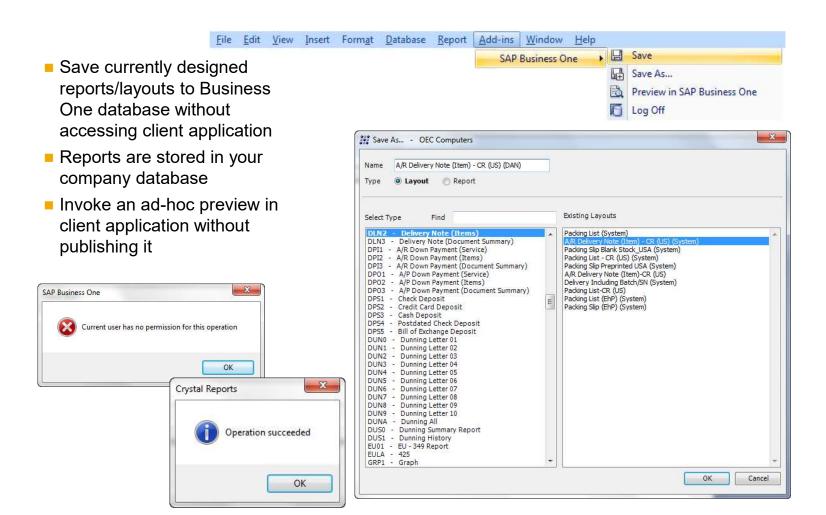






Crystal Designer & Business One Integrated (CR Addin)









Section 4



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Report Administration







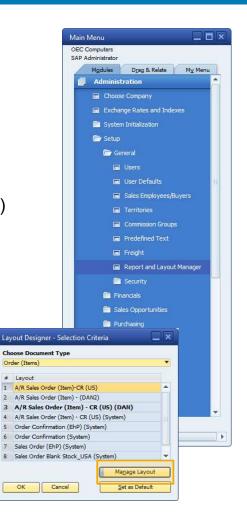
Report & Layout Manager Functions



Administration>Setup>General>Report and Layout Manager

- Run Crystal reports
- Import Crystal reports and Crystal layouts
- Export Crystal reports and Crystal layouts
- Create report folders in the Business One Main Menu
- Create and manage report printing sequences (*Mktg Docs)
- Set user authorizations for running Crystal reports
- Set printing options for Crystal reports and Crystal layouts
- View print settings for "standard" reports and layouts (PLD)
- Delete Crystal reports and layouts *
- Launch the Crystal designer to create and edit reports
- Launch the Print Layout Designer to edit standard reports







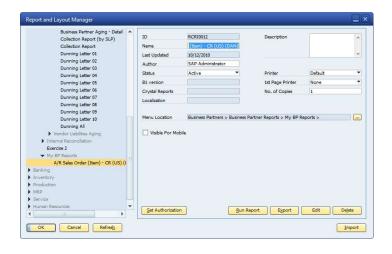


Reports vs. Layouts



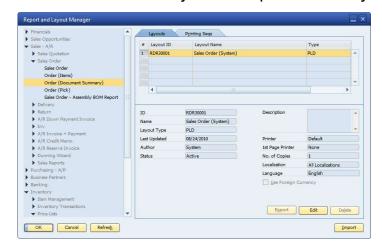
Report

- Must be a Crystal report
- Imported to Business One as a "report"
- Not "linked" to a Business One screen
- Can prompt for report parameters
- Cannot have a print sequence defined



Layout

- Can be a Crystal or PLD report
- Imported into Business One as a "Layout"
- Must be assigned to a Business One document type (Menu Option)
- Get their primary source data from that Business One screen/document
- Before Crystal all reports were layouts







Creating New Report Folders

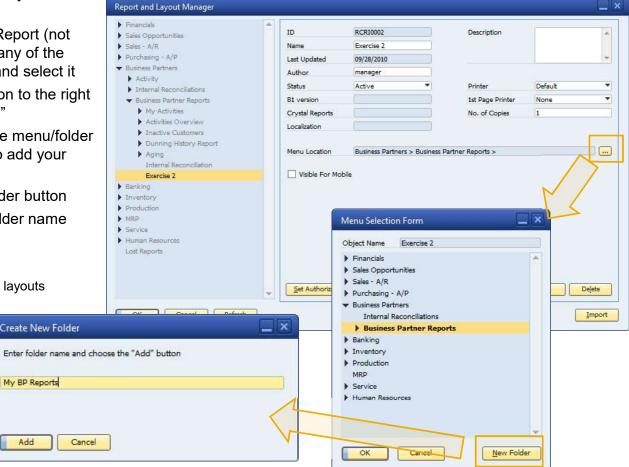
Create New Folder

My BP Reports

Add



- Open Report and Layout Manager
- Find any Crystal Report (not PLD or layout) in any of the existing folders, and select it
- Click the button to the right of "Meriu Location"
- Find and select the menu/folder where you want to add your new folder
- Click the New Folder button
- Enter your new folder name
- Click Add
- * Only for reports not layouts







Importing Crystal Reports into Business One



Report & Layout Import Wizard

- Click on the Import button from Report and Layout Manager
- Select at File Location to import from (Local or Network)
- Select a Package or Report file
 - .b1p report package contains multiple .rpt files
 - .rpt Crystal reports definition file
- Select the report Content Type
 - Layout Report linked to a Business One Document or Screen
 - Report Standalone report
- For Reports select a Folder destination in Business One
- For Layouts select the document type
- If the report has already been imported you have the chance to overwrite or rename
- Import summary give final status and details of the import





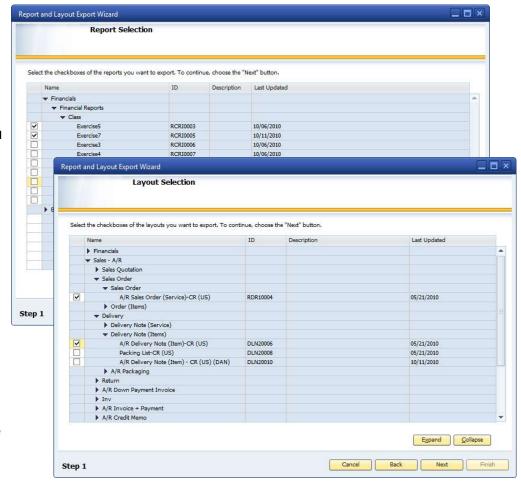


Exporting Crystal Reports from Business One



Report & Layout Export Wizard

- Select a Crystal report in the Report and Layout Manager
- Click the Export button
- Depending on what report was highlighted when you started, you either get the Layout Selection or the Report Selection screen next. (Note: You can't export both types of reports (layouts & reports) in one wizard run)
- Select one or more Crystal Layouts or Reports to export
- Click the Next button
- Enter a name for the Report Package you will be creating
- Select a folder location to save the Report Package.
- Click Finish
- The Export summary screen will give final status and details of the export



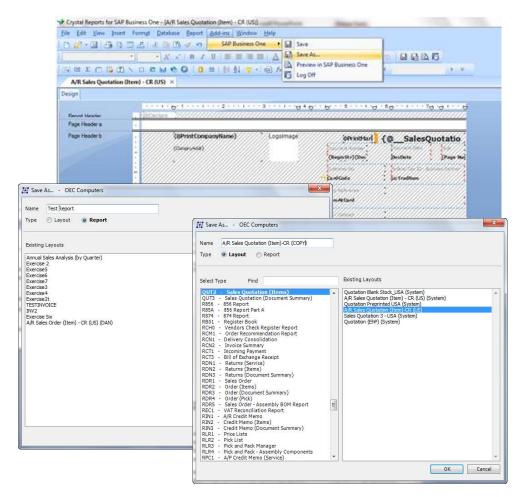




"Copy" a Crystal Report?



- No "Copy "function or button
- Select the Crystal report or Crystal Layout you want to copy in the Report and Layout Manager
- Click the Edit button
- This will launch the Crystal Designer in a new window
- From the Add-Ins menu select SAP Business One>Save As
- Enter the new name in the name field and Hit OK
- The Type radio selector will be set based on the type of report (report or layout) you selected to edit
- This will save the report or layout back to the Business One database.
- Hit the Refresh button in the Report and Layout Manager and you will see the report with your new name









Report & Layout Manager Import & Export







Exercise 1 – Report & Layout Manager Import & Export



Exercise Objectives

- Import reports and Business One Report Packages into the SAP Business One main menu
- Move a report to a different folder
- Change document name and more
- Create new Report folders
- Export Crystal Reports
- Run Crystal reports from SAP Business One
- "Copy" a System Crystal reports layout



