

Sage 300 ERP

Sage 300 ERP 2012

Customizing Printed Forms

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Customizing Printed Forms and Reports with the SAP Crystal Reports Designer

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Customizing Printed Forms and Reports with the SAP Crystal Reports Designer

This document describes how to use SAP Crystal Reports® for Sage 300 ERP to modify the reports and forms that come with Sage 300 ERP, such as Accounts Receivable statements, Accounts Payable checks, Order Entry invoices, and Inventory Control stock labels.

All reports and business forms in Sage 300 ERP *except G/L financial statements* are generated using Crystal Reports.

The chapter assumes that you are familiar with Crystal's capabilities.

Sage 300 ERP Reports and Forms

Reports provided with Sage 300 ERP fall into two main types:

- **Standard business forms.** You can use Crystal Reports to customize the following forms:
 - Statements
 - Checks
 - Credit notes
 - Invoices
 - Quotes
 - Order confirmations
 - Picking slips
 - Mailing, inventory, and shipping labels
 - Purchase requisitions
 - Purchase Orders

This document provides some background on how datapiques work and how you use them with custom reports.

- **Standard accounting reports.** You can also use Crystal Reports to customize the standard reports that come with Sage 300 ERP, or to create new reports for particular reporting purposes.

Choosing Between Datapiped and ODBC Forms

Sage 300 ERP provides a large number of business forms that can be used “as is” or be customized to suit the requirements of your company. Typically, each business form comes in two versions, one for use with preprinted forms, and one that prints a complete form on plain paper, with boxes, lines, etc.

However, several business forms, such as Order Entry’s picking slips, also provide more alternatives.

In Order Entry, you can customize six different forms:

Datapiped forms

- OEPICK01.RPT and OEPICK02.RPT are datapiped reports, which means that they use a program to read information from the Sage 300 ERP database and sort it for printing. Datapiped reports are faster, but not as easily customizable as ODBC-based reports.
 - OEPICK01.RPT prints a complete picking slip, including lines and borders, on a laser or ink-jet printer, whereas OEPICK02.RPT is designed for preprinted forms, and prints just the picking number and order information.

ODBC forms

- OEPickOrder1.rpt, OEPickOrder2.rpt, OEPickShipment1, and OEPickShipment2 are ODBC-based versions of OEPICK01.RPT and OEPICK02.RPT for printing information from orders or shipments. They read data directly from the Sage 300 ERP database using standard database access methods.

Note: By default, Order Entry prints the datapiped versions of the picking slips.

What Is a Datapipe?

A *datapipe* is a dynamic link library (DLL) program that performs database queries for reports or forms.

Because datapipes are compiled and optimized for specific reports, they can provide significant performance advantages over reports that use standard database access techniques (ODBC access).

The disadvantage of datapipes is that they provide access to a fixed group of fields. You cannot customize a datapiped report as much as you can customize non-datapiped one.

You Must Edit xxRPT.INI to Switch between Datapiped and ODBC Report Types

In Sage 300 ERP, you cannot immediately switch between printing a datapiped form to printing a non-datapiped form from the same UI, because each application has a report descriptor file that lists the names and parameters of all the reports in a Sage 300 ERP application, and explicitly states whether the report uses a datapipe.

For example, before you can print a non-datapiped picking slip from Order Entry, you must edit Order Entry's report descriptor file as follows:

1. Browse to the Order Entry program directory on the Sage 300 ERP server (for example, \Program files\{installation folder}\OE61A).
2. Open OERPT.INI using Notepad.
3. Search for "[OEPICK01]".
4. In the [OEPICK01] section, comment out the datapipe lines (the "type" line, the "datapipe" line, and the "datapipe query" line) using the apostrophe as follows:

```
[OEPICK01]
'type=DATAPIPE
heading=28030
crystal=OEPICK01
orientation=portrait
paper size=1
optparams=12
2=SELECTBY          STRING   28038
3=SORTBY            STRING   28038
4=FROMSELECT        STRING   28035
5=TOSELECT          STRING   28036
6=FROMLOC           STRING   28261
7=TOLOC             STRING   28262
8=REPRINT           STRING   28037
9=QTYDEC            STRING   28260
10=COMPLETED       STRING
11=PRINTKIT         STRING
12=PRINTBOM         STRING
13=SESHNDL          STRING
'datapipe path=..\
'datapipe
query="oepick.dll=OEPICK01\n%SELECTBY%\n%FROMSELECT%\n%TOSELECT%\n
%FROMLOC%\n%TOLOC%\n%REPRINT%\n%QTYDEC%\n%COMPLETED%\n0\n0\n0\n0\n
%SESHNDL%"
```

5. Save OERPT.INI.

If you want to print the datapiped picking slip again, you will have to remove the comments.

The parameters in the report descriptor file are described in detail later on in this document.

Modifying Forms Using Crystal Reports

You can edit ODBC-based reports and datapipe reports in Sage 300 ERP using version 11 or higher of Crystal Reports.

For example, you can:

- Add graphic images.
- Add report titles.
- Add sections to the report to display subtotals and grand totals.
- Add text to a report, or edit existing report text.
- Change fonts and styles and format fields.
- Move fields around the report.
- Insert the following types of fields in ODBC reports:
 - **Database fields.** Database fields are the fields defined in the Sage 300 ERP database and accessible using the existing database query or by modifying the database query in Crystal Reports.
 - To insert database fields, choose Field Object from the Insert menu, and select the database field from the Field Explorer window.
 - To expand the database query,
 - **Computed fields.** Computed fields are fields you can create to contain the results of computations on other fields on the report. You can use computed fields to calculate data, such as totaling numbers in a column or computing an average.
- Insert the following types of fields in datapipe reports:
 - **Datapipe fields.** Datapipe fields are the fields defined by the datapipe dynamic link library file. To insert datapipe fields, choose Field Object from the Insert menu, and select the database field from the Field Explorer window.
 - **Computed fields.** Computed fields are fields you can create to contain the results of computations on other fields on the report. You can use computed fields to calculate data, such as totaling numbers in a column or computing an average.

Note: You cannot add database fields to a datapipe report definition.

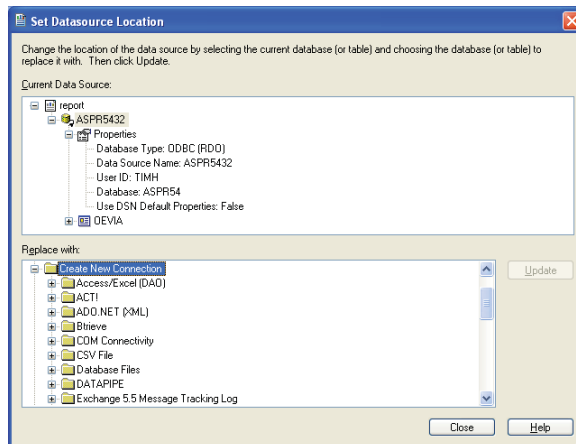
Review Existing Reports and Forms Before You Start

Print copies of the forms from Sage 300 ERP or refer to the Reports chapters in each of the application *User Guides*. In most cases, you must have data before you can print the forms.

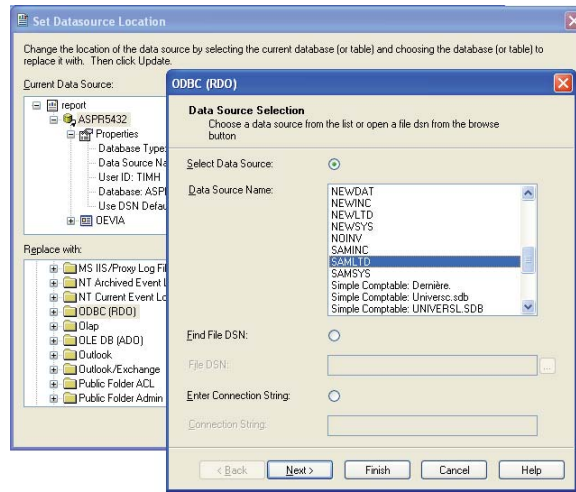
Editing an Existing ODBC Report with Crystal Reports

If you are editing an existing ODBC report, you must set the datasource name for the report so it matches the datasource on your computer.

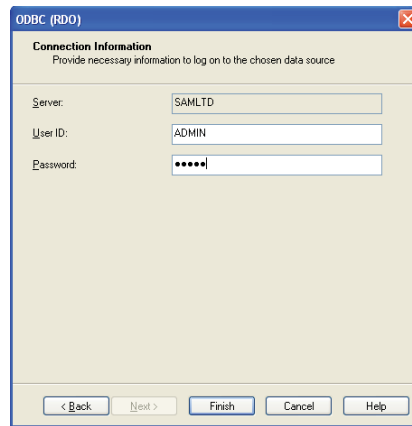
1. Copy and rename the Crystal report that you want to change.
2. Open the renamed report, and choose Database, Set Datasource Location... from the Crystal Reports menu. The Set Datasource Location dialog box will appear.



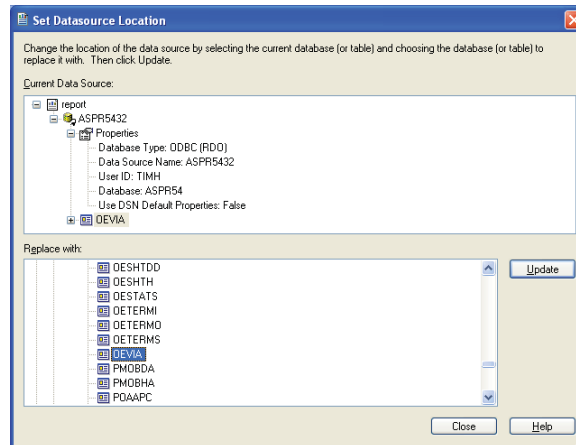
3. To change the current data source, expand Create New Connection in the Replace With window, scroll down to ODBC, and expand again.
4. Choose the ODBC data source for the report data, and click the Next button.



5. Enter the connection information for the ODBC connection and click the Finish button.



6. Select a table in the Current Data Source and one in the Replace With data source, and click the Update button.



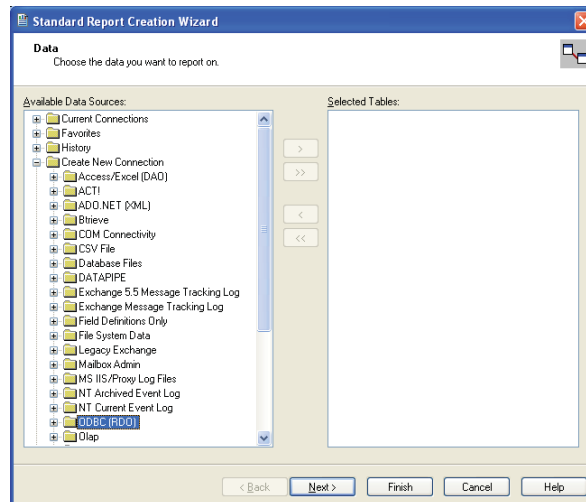
7. Continue to update each table in the report.
8. Click the close button when you are finished.

Note: If the report has subreports, you must also set the data sources for each of the tables in each of the subreports.

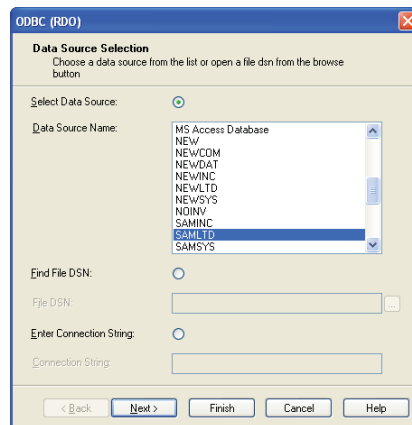
Creating an ODBC Report with Crystal Reports

To create a new report with ODBC access to a Sage 300 ERP database, follow these general steps. (This example creates a standard report for a Pervasive.SQL database in Crystal Reports version 11.)

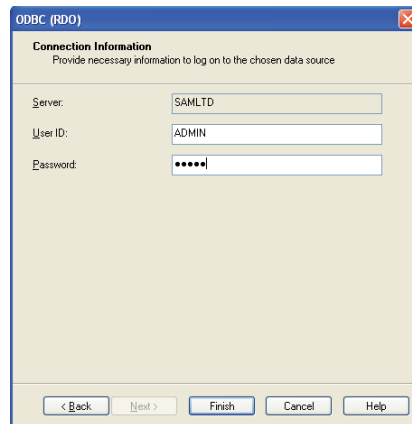
1. Open Crystal Reports and choose File, New, Standard Report to create a new blank report using Crystal’s Standard Report Creation Wizard. The Data page will appear.



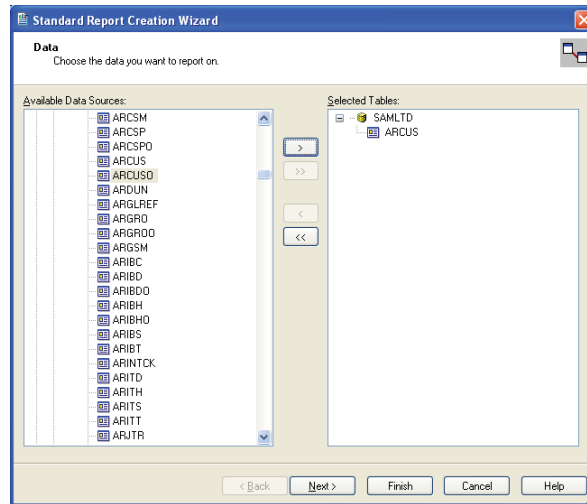
2. Expand the Create New Connection folder in the Data window, and then expand ODBC to open a dialog from which you can select the data source that you want to use — in this case, SAMLTD.



3. Choose the Next button after choosing the data source to move on to the connection information screen, where you enter log on information for designing the report.



4. Click Finish.
5. Select the database tables that you need for the report.



6. Save the report in the ENG directory for the application. (For example, AR61A\ENG.)
7. Add the optional parameter fields defined in the xxrpt.ini file. The name of the Crystal report parameter field should be the same as the corresponding optional parameter field defined in the xxrpt.ini file.
8. Add groups and formula fields, as needed.
9. Complete the report design (define sections, order, and so forth).

Creating a Datapipe Report with Crystal Reports

A datapipe is a dynamic link library (DLL). These DLLs are programs that perform database queries for some Sage 300 ERP reports. These programs can provide significant performance advantages because you compile and optimize them for specific reports.

The datapipe DLL returns records to Crystal, one at a time.

Crystal reports that use a datapipe DLL also have a DATAPIPE.INI text file in the same directory where the DLL resides.

The text file includes one section for each datapipe DLL. Each DLL section contains a query entry listing, containing the following information:

- The query name and a list of the default values for the datapipe parameters, separated by “\n”.

Note: These parameters have a one-to-one correspondence with the datapipe query entry of the report section in the `xrpt.ini` file.

- Parameter values P1 through P4, which specify the default database from which Crystal will read when designing the report form.

If a datapipe contains multiple queries, it will list all of the queries in the `datapipe.ini` file. However, when you create a new Crystal datapipe report, all queries, except for the one required for the report, must be commented out in the `datapipe.ini` file.

Example:

This example shows the datapipe DLL section in the `DATAPIPE.INI` which is required to create the Crystal datapipe report, `GLPJCON1.rpt`.

```
[GLPJCON.DLL]
query="GLPJCON1\n0000\n999999\n \n0\n "
'query="GLPJCON3\n0000\n999999\n \n0\n "
'query="GLPJCON4\n0000\n999999\n \n0\n "
'PARAMETER      3      4      12 13
P1=SAMLTD
P2=ADMIN
P3=
P4=ENG
```

Parameters Used in Crystal Datapipe Reports

Crystal datapipe reports use the following parameter types:

- Datapipe design time parameters.
- Datapipe query (optional) parameters.

Datapipe Design Time Parameters

These parameters are only defined in the `datapipe.ini` file as they are only required during report development.

When a user starts a datapipe report from the Sage 300 ERP desktop, the desktop passes information about the user's system to the datapipe. During development, you supply this information to Crystal in the `datapipe.ini` file.

- P1 — This parameter specifies the database ID defined in Sage 300 ERP Database Setup, for example, `SAMINC`.
- P2 — This parameter specifies the user ID, for example, `ADMIN`.
- P3 — Leave this parameter value blank.

- P4 — This parameter specifies the language code for the report, for example, ENG.

Example:

Here is a sample entry from a datapipe.ini file, which shows the entry of the design time parameters.

```
[GLPPERR.DLL]
query="GLPPJER"
P1=SAMLTD
P2=ADMIN
P3=
P4=ENG
```

In this example, Crystal is directed to use the SAMINC database (as defined in Sage 300 ERP Database Setup), and to logon to the database as user ADMIN. The report will be generated as an English-language report; therefore, it should reside in the application's ENG subdirectory.

Datapipe Query (Optional) Parameters

Datapipe query parameters (defined as optional parameters in the xxrpt.ini file) are the parameters passed from the report to the datapipe DLL. You enter these parameters in the report query.

These parameters may include:

- Key ranges.
- Possible sort orders.
- Data that must be passed in, such as a flag to select multicurrency.

The Report Initialization (xxrpt.ini) File

The report initialization file, xxrpt.ini, defines the reports for an application. It is divided into report name sections — one section for each application report.

For a report that uses datapipes, you must add the following three entries to its report name section in the xxrpt.ini file.

- type=datapipe

This entry defines the report as a datapipe report.

- datapipe path=..\

This entry tells the API where the report's datapipe is located. As reports are language-specific, they are stored in the application's language resource directory, for example GL61A\ENG.

Datapipes are stored in the application's parent directory, for example, GL61A, as they are not language specific. Datapipes only contain data retrieval and calculation functionality, and the same datapipe can be used for different language versions of the same report.

- datapipe query="<Datapipe DLL>=<Query Name>\n<parameter1>\n ... <parameterm>\n"

This entry specifies the datapipe DLL name, and the query (report or subreport) name and parameter values used by a datapipe for the report. Parameter values are preceded by "\n".

Note: Use the ^ symbol to separate datapipe subreport queries. For an example of a datapipe query which includes datapipe subreport entries, see the datapipe query line in the [GLPJ01] section of the GLRPT.INI file.

Example:

The following example shows the [GLBCH01] report section in the GLRPT.INI file for the GLBCH01 Crystal datapipe report. The corresponding datapipe DLL entry in the DATAPIPE.INI file follows.

```
[GLBCHL01]
heading=24020
crystal=glbch101
orientation=landscape
paper size=1
optparams=21
type=datapipe
2=FRBATCH          STRING
3=TOBATCH          STRING
4=FRLDGR           STRING
5=TOLDGR           STRING
6=FRDATE           STRING
7=TODATE           STRING
8=TYPES            STRING
9=STATUS           STRING
10=FCURNDEC        STRING
11=QTYDEC          STRING
12=QTYHDG          STRING
13=UNITHDG         STRING
14=PATH            COMPANY
15=QUERY           STRING
16=EXT             FILEEXT
17=PRINTED         STRING
18=USEGS           STRING
19=USER            STRING
20=OPTIONALFIELDS STRING
21=ICTINSTALLED   STRING
22=ICTMULTI        STRING
datapipe path=..\
datapipe
query="glbchl.dll=GLBCHL01\n%FRBATCH%\n%TOBATCH%\n%FRLDGR%\n%TOLDGR%\n%FRDATE%\n%TODATE%\n%QUERY%\n%PRINTED%\n%USEGS%\n%USER%\n%OPTIONALFIELDS%\n%ICTINSTALLED%\n%ICTMULTI%"
```


In the query line for this example, the datapipe DLL is identified as glbch1.dll, the query name (report name) is GLBCHL01, and 13 of the 21 parameters defined for the report will be passed to the datapipe. Parameter names begin and end with the “%” character, and are separated by a preceding “\n”.

The parameter names are the same as those listed in the GLRPT.INI file for the respective report. For example, %TOBATCH% substitutes the current value of the report’s TOBATCH parameter.

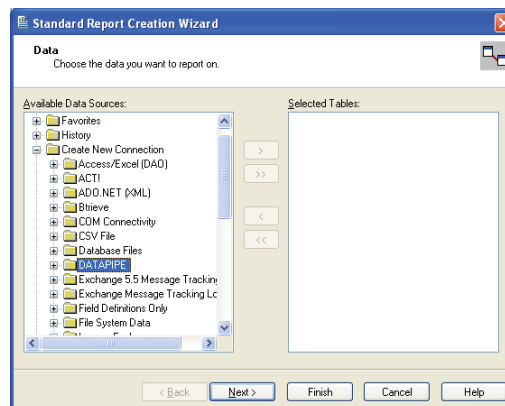
If the report has datapiped subreports, then the datapipe query string contains multiple sections separated by the “^” symbol. The datapipe DLL name and query name in the query entry line correspond to the DLL section name ([GLBCHL.DLL]) and the query name (GLBCHL01) defined in the DATAPIPE.INI file, as noted below:

```
[GLBCHL.DLL]
query="GLBCHL01\n0\n99999\n \nZZ\n20050101\n99991231\n0\n \n0\n \n1\n0 \n0"
P1=SAMLTD
P2=ADMIN
P3=
P4=ENG
```

Creating the Datapiped Crystal Report Specification

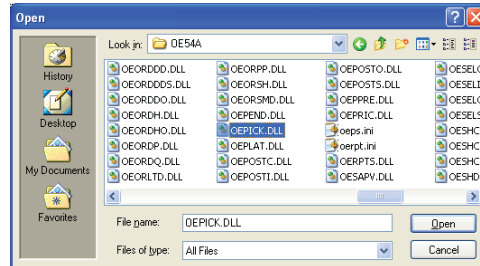
The following example creates a standard report in Crystal Reports version 11.

1. Open Crystal Reports and choose File, New, Standard Report to create a new blank report using Crystal’s Standard Report Creation Wizard. The Data page will appear.



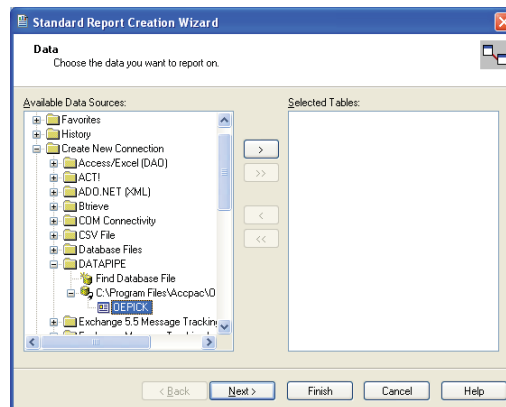
2. Expand the Create New Connection folder in the Data window, and then expand Database Files to open a dialog from which you can search for the datapipe DLL file.

3. Navigate to the directory that contains the datapipe DLL file (this directory must also contain the datapipe.ini file).
4. Click the "Files of type" drop-down list options, and select the "All Files" option.

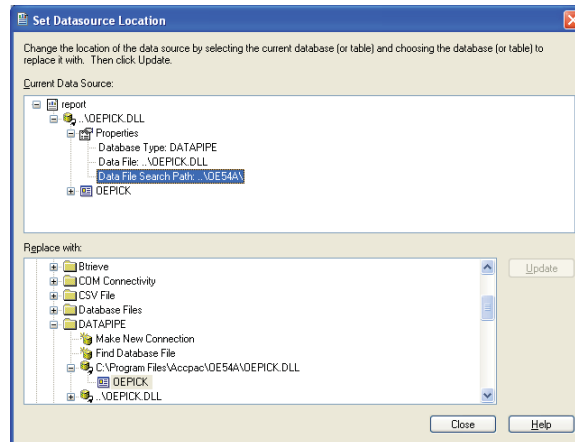


5. Double-click the datapipe DLL file to add it to the Database Files folder in the Data Explorer window.

In the example below, we added the OEPICK datapipe to the report.



6. Click the Finish button to add the DLL to the report.
7. Save the report in the ENG directory for the application. (In our example, OE61A\ENG.)
8. Change the database location as follows:
 - a. Select "Set Location" from the Database menu.
 - b. In the File location field, delete all the text after the datapipe DLL name and precede the datapipe DLL name with "..\.". For example, the text in the File location field for the datapipe OEPICK.DLL should be ..\OEPICK.DLL.



- c. Click the Close button to save your changes and close the dialog.
9. Save the report again.
10. Add the optional parameter fields defined in the xxrpt.ini file. The name of the Crystal report parameter field should be the same as the corresponding optional parameter field defined in the xxrpt.ini file.
11. Add groups and formula fields, as needed.
12. Complete the report design (define sections, order, and so forth).

Integrating Crystal Reports into Sage 300 ERP

There are several ways to integrate a custom Crystal report into an existing application, you can:

- Add a report to the Sage 300 ERP Desktop as a new report object.
- Record a macro and add it to the Sage 300 ERP Desktop (so the user can more easily enter criteria).
- You can replace an existing report and use the existing report UI.

If you use a macro to start a new report, you must define your report in the Sage 300 ERP application's report initialization file, xxrpt.ini. For more information, see the following section, "The Report Descriptor File."

If you are replacing a standard Sage 300 ERP report with a new one, you may have to change xxrpt.ini.

Install the Crystal ActiveX Report Viewer

To run a macro which displays a Crystal report from the Sage 300 ERP Web Desktop, the Crystal ActiveX Report Viewer must have been previously downloaded and installed on the client machine. If this viewer is not currently installed on the client, the simplest way to initiate the download and install process is to run a Crystal report from the Sage 300 ERP Web Desktop.

The Report Descriptor File

The report descriptor file is an ASCII file that lists the names and parameters of all the reports in a Sage 300 ERP application.

The report descriptor file is called `xxvvv\xxRPT.INI`, where `xx` is the two-letter application id, and `vvv` is the program version. For example, the report descriptor file for General Ledger version 6.1A would be `GL61A\GLRPT.INI`.

Standard File Format

Each report is described in a separate section. Each section begins with the report name, and descriptor file statements follow the report name. For example, the following section describes a picking slip in Order Entry:

```
[OEPICK01]
type=DATAPIPE
heading=28030
crystal=OEPICK01
orientation=portrait
paper size=1
optparams=12
2=SELECTBY          STRING  28038
3=SORTBY            STRING  28038
4=FROMSELECT        STRING  28035
5=TOSELECT          STRING  28036
6=FROMLOC           STRING  28261
7=TOLOC             STRING  28262
8=REPRINT           STRING  28037
9=QTYDEC            STRING  28260
10=COMPLETED       STRING
11=PRINTKIT         STRING
12=PRINTBOM         STRING
13=SESHNDL          STRING
datapipe path=..\
datapipe
query="oepick.dll=OEPICK01\n%SELECTBY%\n%FROMSELECT%\n%TOSELECT%\n%FROMLOC%\n%TOLOC%\n%REPRINT%\n%QTYDEC%\n%COMPLETED%\n0\n0\n0\n0\n%SESHNDL%"
```

The descriptor file statements are explained in the following paragraphs:

type

For a datapipe report, include a `type=datapipe` line. Do not include in a non-datapiped report.

| | |
|-------------|---|
| heading | <p>heading=string resource number "heading string"</p> <p>This is the heading of the report window. It can be either the resource number of a string in the application's language-specific resource DLL, or a string in quotes.</p> |
| crystal | <p>crystal=crystal file name</p> <p>This required statement designates a Crystal Report. The file extension, .rpt, is not included. The default directory for this file is the application's language-specific subdirectory. The default extension is .RPT. You can include a complete path name if you want.</p> |
| orientation | <p>orientation=orientation</p> <p>This specifies the default orientation for this report. It is either portrait or landscape.</p> |
| paper size | <p>paper size=paper size</p> <p>This specifies the default paper size for this report. It is a number from PRINT.H in the Windows SDK INCLUDE directory. (For example, 1 = letter, 2 = legal, and so on.)</p> |
| optparams | <p>optparams=number of optional parameters</p> <p>This optional statement identifies the number of optional parameters. (If you omit this statement, zero is assumed.)</p> |
| [number] | <p>[number]=option name option type list description</p> <p>These statements describe the name and format of each optional parameter. There must be the same number of optional parameters as specified in the optparams statement.</p> <ul style="list-style-type: none"> • number is the number of the optional parameter. You must include a specification for each optional parameter. These were originally designed to be the caret parameter number. • option name is the parameter name. • option type is the parameter type. Valid parameter types are STRING, LIST, COMPANY, SYSTEM, SITE, and FILEEXT. These types are described later. • [list] is additional descriptive information in the list, given as a list of integer values and symbolic strings, where the parameter type is LIST. <p>The values and strings are separated by commas; spaces are not allowed. The symbolic strings can be either string resource numbers for the language-specific resource DLL, or quoted strings.</p> <ul style="list-style-type: none"> • description is a text resource string number or string that is used to document the parameter during macro recording. |

datapipe path This entry tells the API where the report's datapipe is located. Since datapipes are not language-specific, they are placed in the application's parent directory. Reports, on the other hand, are language-specific, and so, are placed in the language subdirectory of the application's parent directory. Set this statement to `datapipe path=..\` to instruct the API to look for the datapipe DLL in the application's parent directory.

Do not include in a non-datapiped report.

datapipe query This entry specifies the datapipe DLL name, and the query name and parameter values (separated by \n) used by a datapipe for the report.

Do not include in a non-datapiped report.

Note: Use the ^ symbol to separate datapipe subreport queries.

Possible parameter types are:

| Parameter Type | Description |
|----------------|---|
| STRING | For a simple string. If the parameter type is STRING, then no additional descriptive information is given. |
| LIST | For mapping a list of values to string resources. The list consists of a set of pairs of values and string resources. |
| COMPANY | For setting the table path. For a Btrieve-type database, the full pathname to the company's database is formed, for example, C:\Program Files\{installation path}\COMPANY\SAMLTD\ For other databases, such as Pervasive SQL and SQL, no translation is necessary, since the database engine will use the given table name (for example, GLASV) to figure out how to access the actual data. |
| SYSTEM | For setting the table path to the company's system directory. For a Btrieve-type database, the full pathname to the system database is formed, for example, C:\Program Files\{installation path}\COMPANY\SAMSYS\ For other databases, such as Pervasive SQL and SQL, no translation is necessary, since the database engine will use the given table name (for example, GLASV) to figure out how to access the actual data. |
| FILEEXT | For a Btrieve-type database, this parameter will be .DAT. For other databases, such as SQL, it will be an empty string. |

Datapipe reports have the following additional statements:

type For a datapipe report, include a `type=datapipe` line.

datapipe path This entry tells the API where the report's datapipe is located. Since datapipes are not language-specific, they are placed in the application's parent directory. Reports, on the other hand, are language-specific, and so, are placed in the language subdirectory of the application's parent directory. Set this statement to `datapipe path=..\` to instruct the API to look for the datapipe DLL in the application's parent directory.

datapipe query This entry specifies the datapipe DLL name, and the query name and parameter values (separated by `\n`) used by a datapipe for the report.

Note: Use the `^` symbol to separate datapipe subreport queries.

Report Style Guidelines

Sage 300 ERP uses set of report style guidelines to ensure a level of consistency in all Sage 300 ERP reports. The guidelines cover both external and internal issues. Internal consistency is helpful if users or programmers need to change report definitions.

The guidelines are:

- Standard font and point size for reports is Arial 8.
- The first line of the page heading contains the following three entries:
 - The first entry is the date and time, left-justified. The date is in "Long Date" format. The time is formatted as `h:mm AM/PM`.
 - The second entry is the company name, centered. Size the field to accommodate the full length of the company name.
 - The third entry is the page number, right-justified.
- Column titles are underlined and bold.
- Company name, report headings, and labels should be bold. Other text should be regular.
- The first report parameter is `CMPNAME` — the company name.
- The first letter of each word is capitalized in the report name and column headings.
- Report options should only be printed on the first page. The Crystal report filename (without the `.rpt` extension) is always printed in parentheses to the right of the report title.
- The first letter of each sentence is capitalized in field labels for report options, footers, and report body text.

- Database field names are all upper case, to differentiate them from calculated fields. Calculated field names are mixed upper and lower case.
- For portrait-oriented reports, margins are:
 - Left, .75
 - Right, at least .35
 - Top, .5
 - Bottom, .5
- For landscape-oriented reports, margins are:
 - Left, at least .35
 - Right, at least .35
 - Top, .75
 - Bottom, .5