Integrating MS Office with iSeries Access

Session ID #430059

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Agenda:

1. Transfer methods
2. iSeries Access File Transfer
3. ODBC
4. Client Access overview
5. MS Office Overview
6. Installation Tips
7. Trouble Shooting

Overview:

Why link MS-Office to you iSeries? MS- Office gives you the ability to empower the users of the data. MS-Office is well known my many users. Often users rekey data into MS-Office applications causing a potential for incorrect information. MS-Office contains many easy to use tools that can improve the productivity of the IS staff and give users the information they want in the format they desire. It is the best of both worlds, a highly popular powerful user based tool with the reliable accurate data from your iSeries applications.

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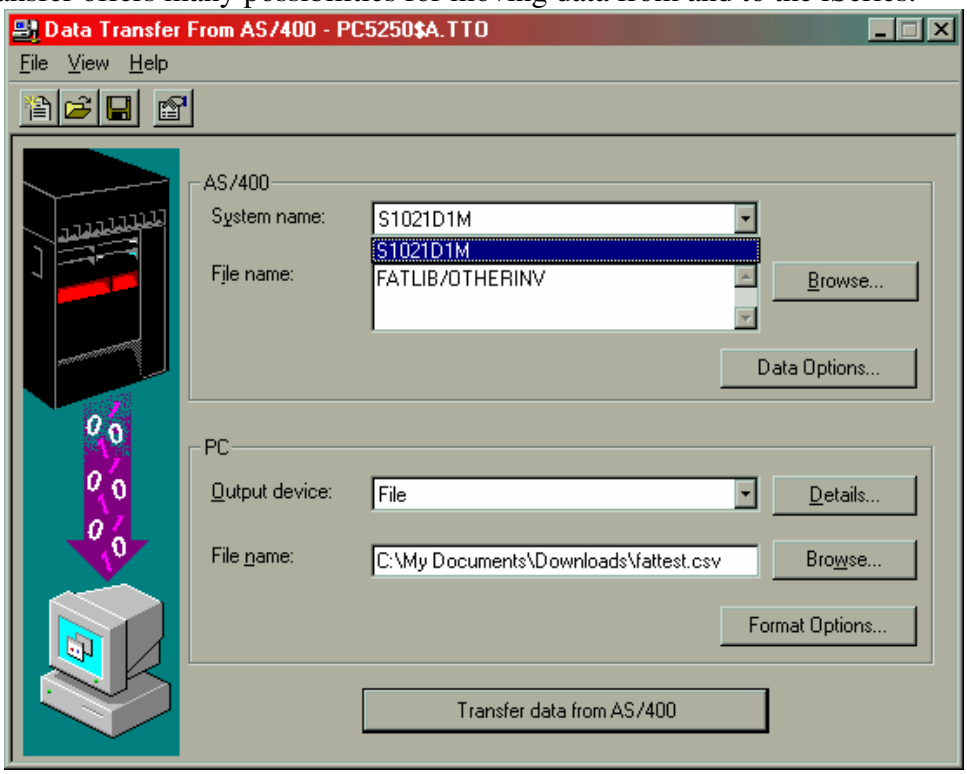
Transfer Methods:

1. **CA – Data Transfer**
2. **ODBC**
3. FTP
4. OLE DB/Project Lightning/Express Toolkit
5. iSeries Access for the Web

Data Transfer

Data transfer is a licensed product that is included in iSeries Access.
Data transfer offers many possibilities for moving data from and to the iSeries.



ODBC

ODBC is a standard that allows authors of databases and programs that would access them to write to a common standard thereby allowing many different DBs to be access by many applications.
ODBC is based on Call-Level Interface and was defined by the SQL Access Group. Microsoft was one member of the group and was the first company to release a commercial product based on its work (under Microsoft Windows) but ODBC is not a Microsoft standard (as many people believe *including me*).
http://foldoc.doc.ic.ac.uk/foldoc/foldoc.cgi?ODBC

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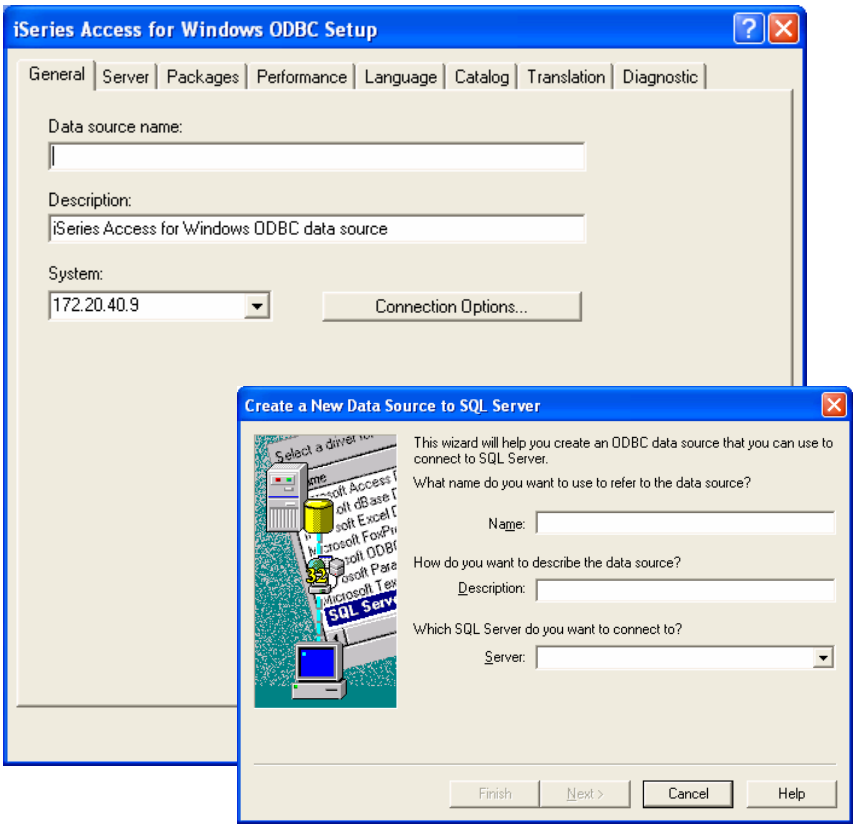
Each database has its own ODBC configuration screen. Such as iSeries Access and MS-SQL sever (see figures below)



File Transfer vs. ODBC

File transfer:

- Extracts iSeries data into a PC File that is then imported into the Office application.
- Transfer must be rerun each time the data changes on the iSeries.
- Allows view of iSeries information

ODBC:

- Imports iSeries data directly into the calling Office application.
- Data can be refreshed in the Office application with the click of the refresh button.
- Allows links to data in other Databases.

FTP (on the iSeries)

FTP is an alternative to File Transfer. It is a TCP/IP tool. **STRTCPFTP** or **FTP** allows you start FTP from a green screen. The iSeries Information Center has a great deal of information on FTP from the iSeries. Once you get to the information center, select Networking > TCP/IP > FTP for more information.

http://publib.boulder.ibm.com/iseries/v5r2/ic2924/index.htm

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FTP (on the PC)

FTP can be run from the PC as well. To start a FTP session first bring up a command prompt window. Here is an example of using a PC prompt to copy an iSeries Library to PC's CD Drive.

1. Create iSeries save file(s) containing the libraries to be transferred with the CRTSAVF and SAVLIB commands. **Make sure the Target release is compatible with the OS/400 version on the receiving iSeries.**
2. You may have to start the FTP server on the target iSeries with the following command: **STRTCPSVR SERVER(*FTP) or iSeries Navigator**
3. Start a command prompt on the PC with the CD burner. (>Start>Run type cmd and press enter)
4. Change directory to where you wish the save files to be stored - for example: **cd \temp**
5. Start an FTP session: **ftp**
6. Open a connection to the iSeries TCP/IP name or address - for example: **open xxx.xxx.xxx.xxx**
7. Enter your iSeries user name and password when requested
8. Change "directory" to the iSeries library containing the save files - for example: **cd FATWRK**
9. Enter **binary** to Change to binary transfer mode (no ASCII to EBCDIC translation).
10. Copy the iSeries save file(s) to the PC (this step may take a while with no progress indication) - for example: **get savefile**
11. End the FTP session: **quit**
12. End the CMD session: **exit**
13. Use the CD burner application to burn the downloaded files onto a CD

Here is an example of Restoring a iSeries Library from a PC.

1. You may have to start the FTP server on the target iSeries with the following command: **STRTCPSVR SERVER(*FTP) or iSeries Navigator**
2. Create save file(s) in the desired iSeries library with the **CRTSAVF** command - it is easiest to use the same names as the files on the CD
3. Start a command prompt on the PC. (>Start>Run type cmd and press enter)
4. Change to the CD drive containing the save file(s) - for example: **d:**
5. Start an FTP session: **ftp**
6. Open a connection to the iSeries TCP/IP name or address - for example: **open xxx.xxx.xxx.xxx**
7. Enter your iSeries user name and password when requested
8. Change "directory" to the desired AS/400 library - for example: **cd QGPL**
9. Change to binary transfer mode (no ASCII to EBCDIC translation): **binary**
10. Copy the save file(s) to the iSeries (this step may take a while with no progress indication) - for example: **put savefile**
11. End the FTP session: **quit**
12. End the cmd session: **exit**
13. Restore libraries from the save file(s) on the AS/400 with the **RSTLIB** command

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FTP vs File Transfer

FTP

- Does not require Client Access
- Is part of TCP/IP therefore it is a Part of Windows 95,98, NT, 2000 and XP as well as OS/400
- Does **not** allow you to work with fields or to select records
- Is command driven with little prompting

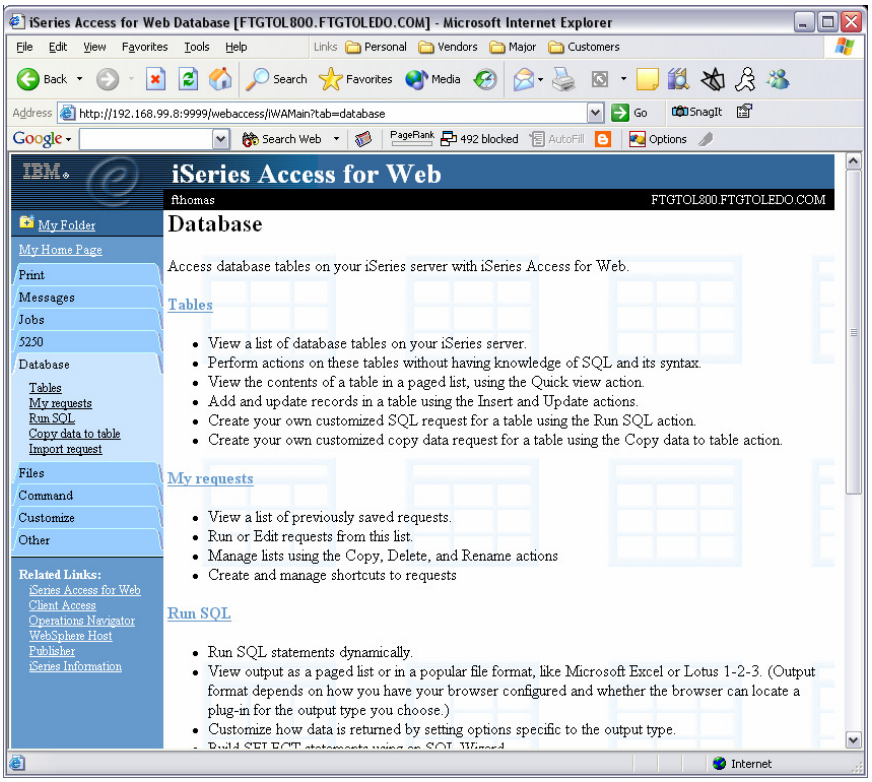
File Transfer

- Requires Client Access
- Is Licensed
- Allows a great deal of flexibility in selecting field and records
- File transfer offers greater flexibility in file translation, file formats and better prompting

OLE/DB ADO

This is a programming toolkit that comes with Client Access that allows you to write Client server applications and in the case of Visual Basic it actually has wizards that generate much of the code.
http://www-1.ibm.com/servers/eserver/iseries/access/toolkit/

iSeries Access for the Web



iSeries Access for the Web has many DB Features including the ability to build an SQL request that is output directly to an Excel File.

http://www-1.ibm.com/servers/eserver/iseries/access/web/

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Starting File Transfer

Method 1

1. Right click on desktop
2. Click on New
3. Click on Data Transfer from iSeries

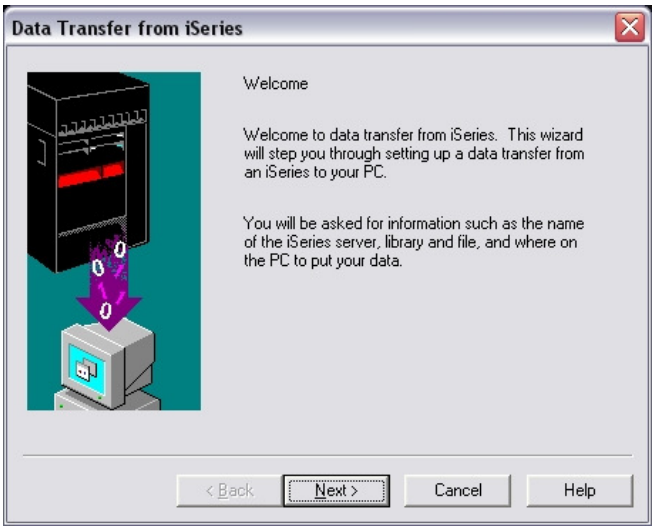
Method 2

1. Click on Start
2. Click on Programs
3. Click on IBM iSeries Access for Windows
4. Click on Data Transfer from iSeries

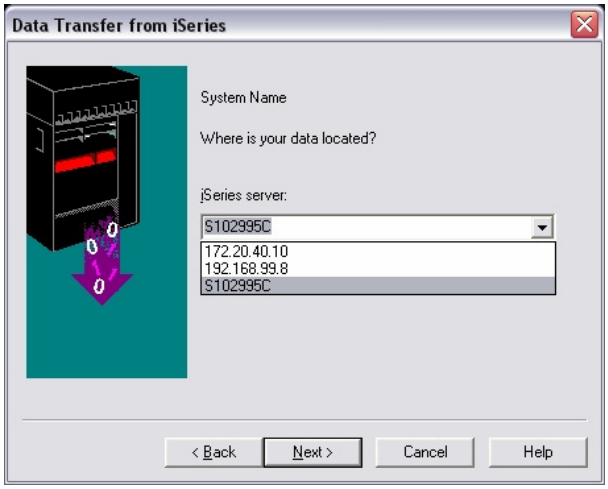
Method 3

1. Start PC5250 session
2. Click on Recv

The Data Transfer Wizard



Click Next



Select the system name from the pull down list. – The default is usually correct. Click Next.

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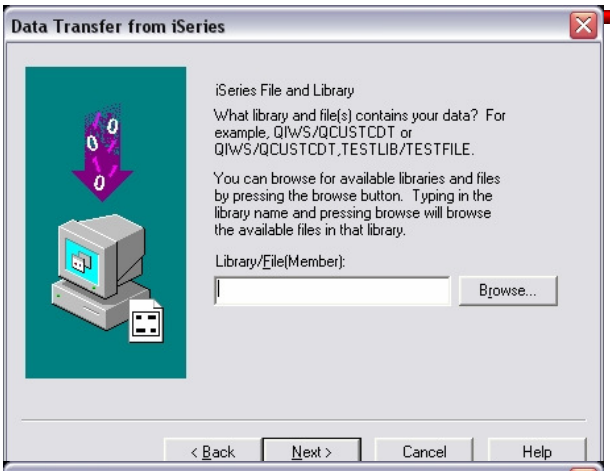
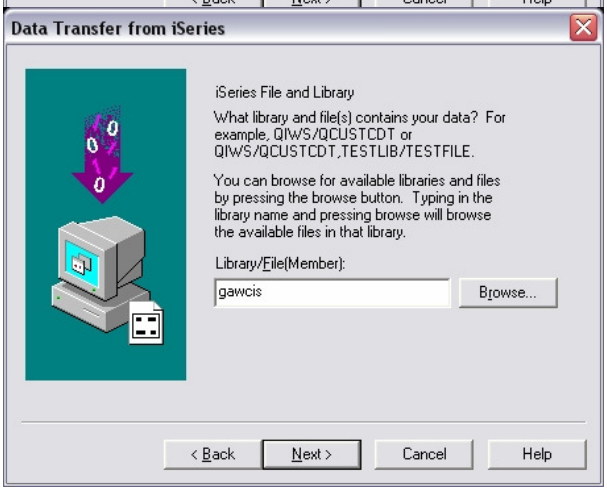
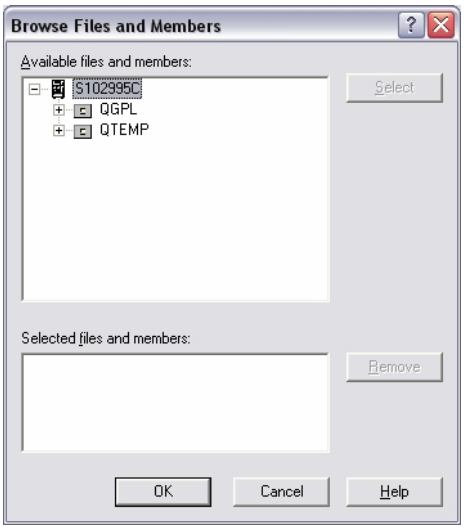
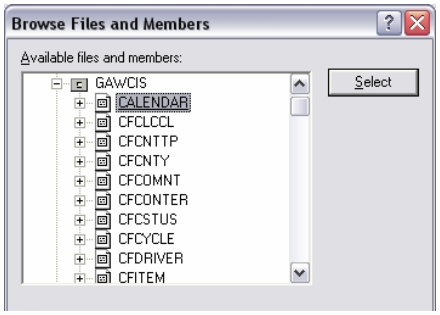




If you click the browse button to select the library and member the system library list is displayed which is not much help.



Enter the library name followed by "/" then the file name. Or click the browse button (after the library name has been entered). Select the file, click the select button and then click OK button.



Display	Lets you view your transfer request on your screen . – Great for testing
File	Puts the data in a PC formatted file.
HTML	Let's you transfer directly to HTML – a good way to create a static HTML table directly from an iSeries file.
Printer	Lets you send a file to a PC printer that is not directly configured on the iSeries.

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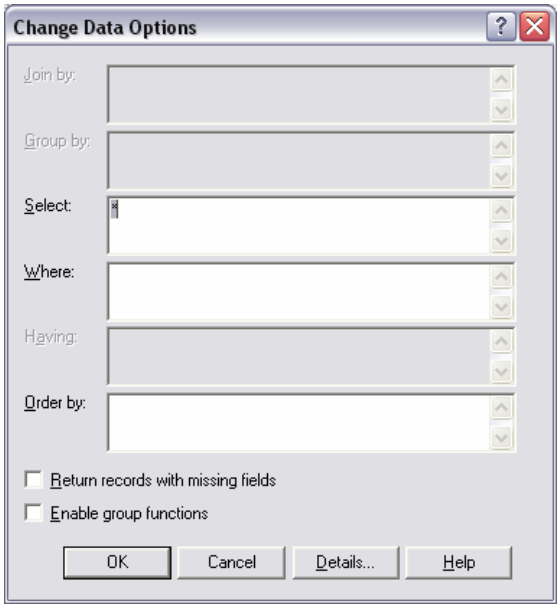
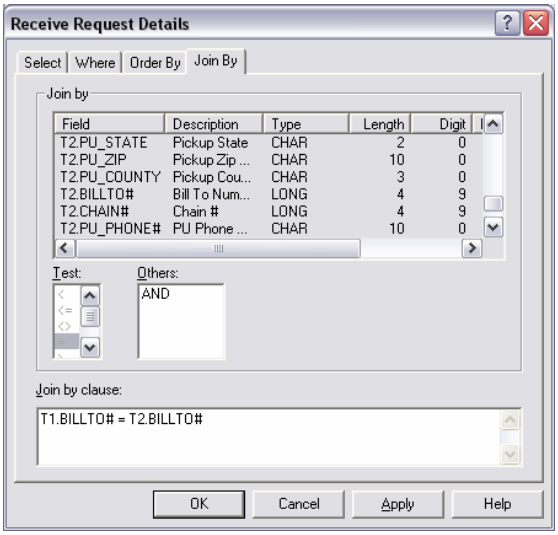
Data Options

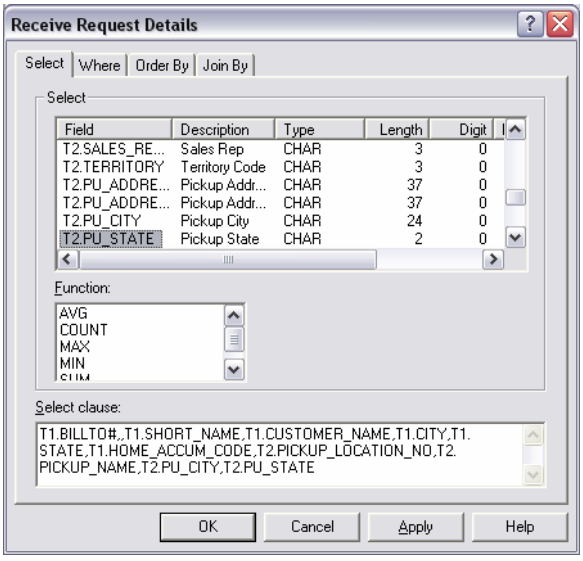


Click on Data Options. The Change Data Options screen appears. The "Join by" section is highlighted if more than one file was selected. The "Group by" and "Having" sections are highlighted if enable group functions is checked. Selection statements can be typed directly in the highlighted sections or click on details to get prompted help.

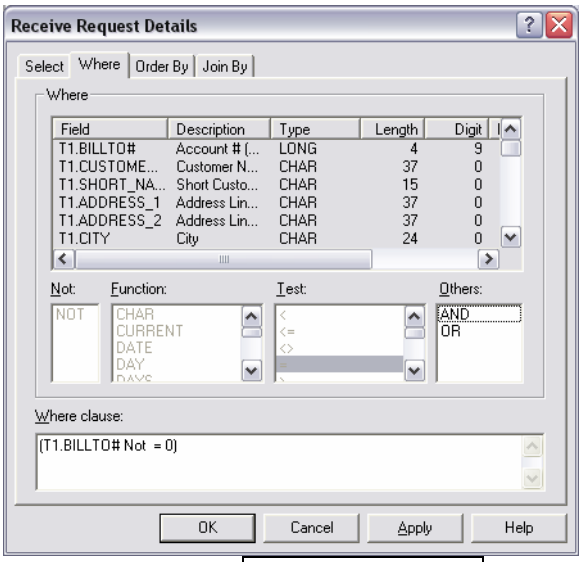
If there was more than one file selected then do the "Join By" first.

Double Click on the field name in the 1st file then Double click on = then double Click on the field name from the 2nd file.





Select the Fields to transfer from "select" tab by double clicking on the desired fields.



To choose records click on the "where" tab. Select a field, select the *Test* and then you will be prompted for the condition.

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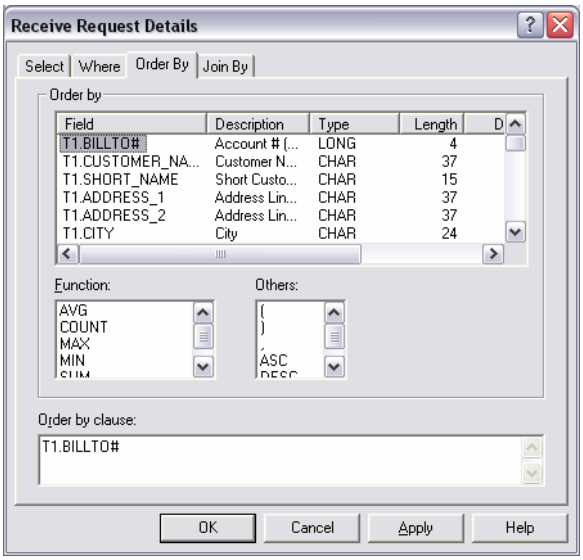
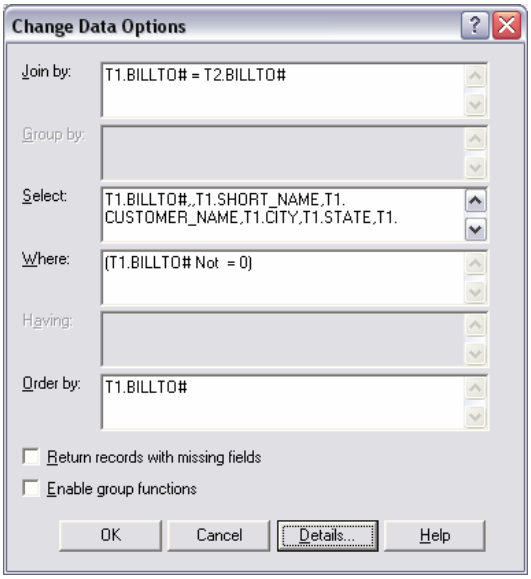
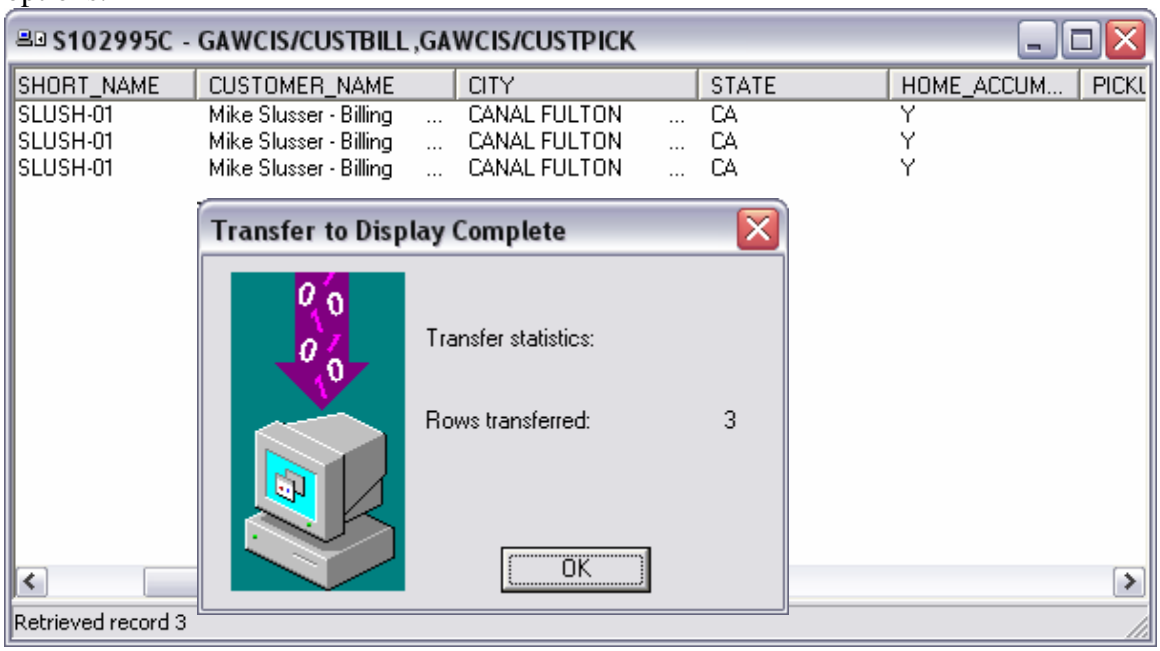


Enter the sort order by using the "Order By" Tab.



Once the data options are set save them by clicking OK.

Click on transfer data to test your data options.



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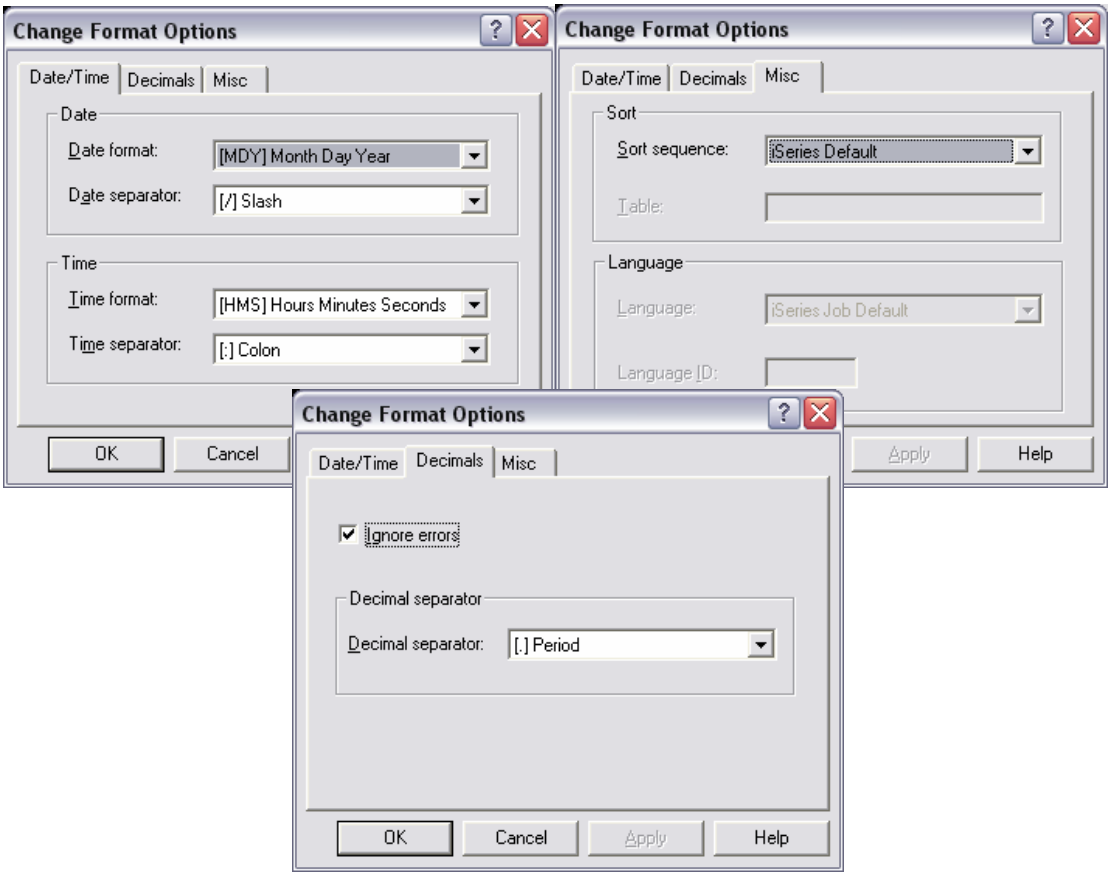
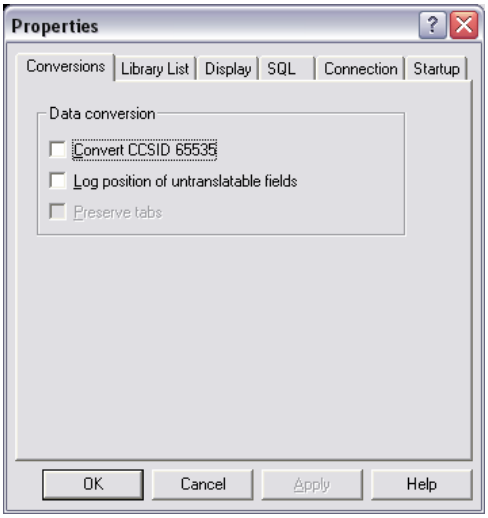
Format Options

The formatting options can be changed by clicking on the format options button. It is fairly rare that you have to change these options.



Properties



It is somewhat more common to change values on the properties screens.

The convert option will fix the problem if you getting back Hex vales.

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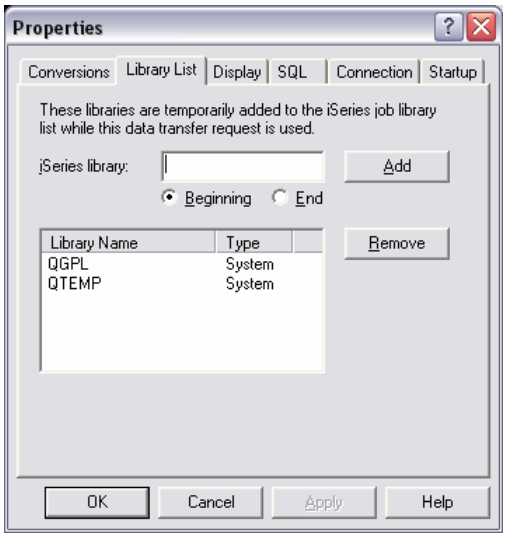

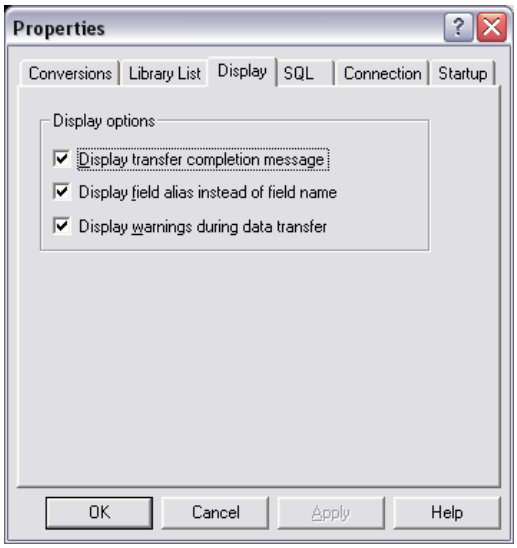

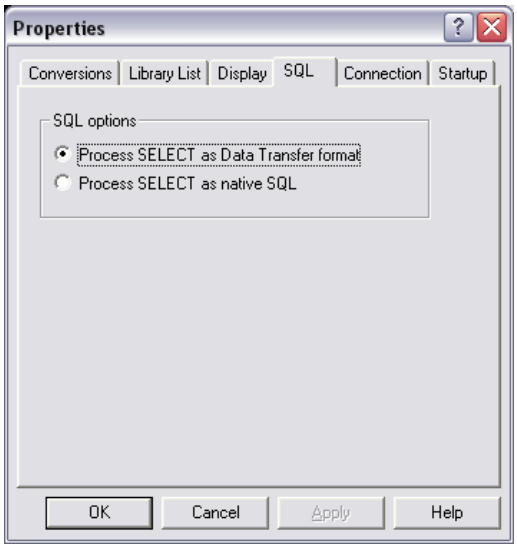

Library List
Allows you to build a library list for the transfer request. During data transfer, if the library selected is found in this library list, the transfer will use the library.

Display field alias instead of field name
Allows you to use the short name of a field instead of the long name. This option only applies when transferring data from the server.

Display transfer completion message
If this box is checked, a message will appear upon transfer completion that shows transfer statistics such as number of rows transferred.

Display warnings during data transfer
If this box is checked, any warnings that occur while transferring data will be shown. Warning messages are shown as a result of data conversion errors, data truncation, loss of numeric precision, and other recoverable problems. If this box is not checked, most recoverable warnings will not be shown. Choosing to not display warnings is useful for those transfer requests where warnings are expected to occur and user intervention is not desirable. The default setting is to display warnings that occur while transferring data.

Process SELECT as Data Transfer format
Select if you want to use the default Data Transfer SQL-like syntax. This is the recommended option. This option will work with previous transfer requests. Using this option will also provide statement building assistance in the Change Data Options and Details windows. This is the default behavior.

Process SELECT as native SQL
Select if you want to specify native SQL SELECT statements. This option allows you to enter SQL SELECT statements that will be sent to the server. This option can be useful for multi-file outer joins and other items that the default Data Transfer statements can not do. No SQL statement building assistance is provided when using this interface. Previous transfer requests will not work when using this option.

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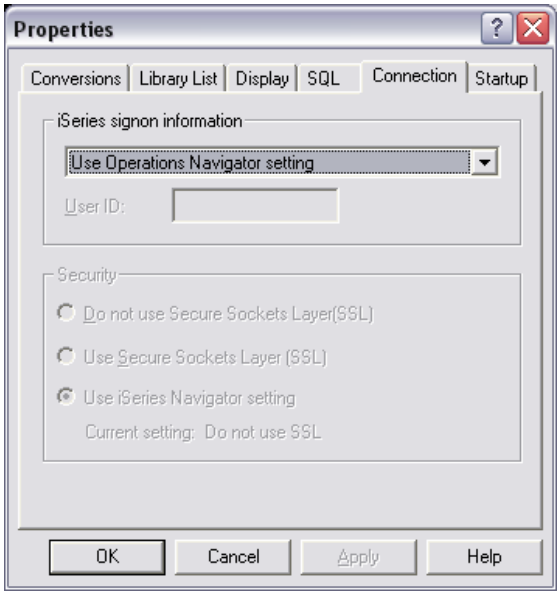
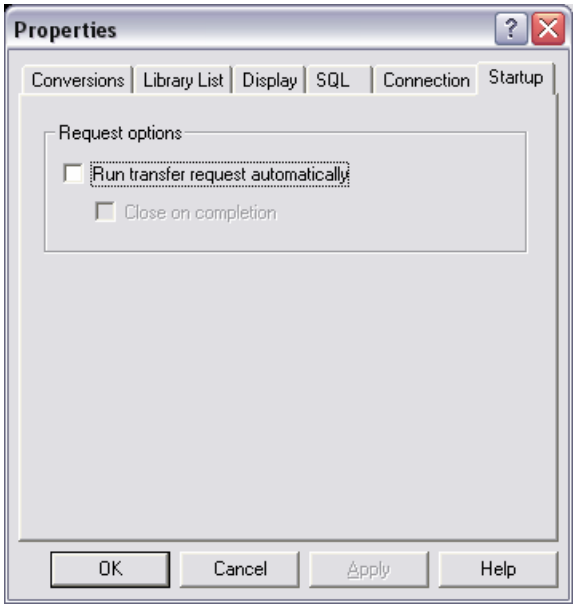


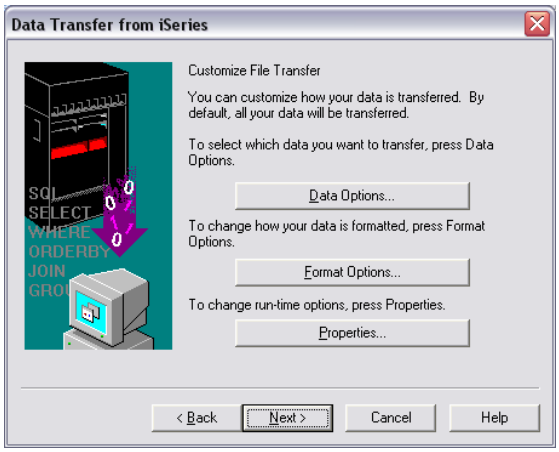
Connection
Allows you to configure the security for the current transfer request. This panel is enabled only when Secured Sockets Layer is installed on your PC, and the server is at least at release V4R4M0 (or if iSeries Access for Windows has not determined the release of OS/400 on the system).



Run transfer request automatically
Check this option to automatically run a .DTF or .DTT transfer request when double-clicked from the desktop, Windows Explorer, or if it is run directly using the START or CWBTF command from the command prompt. When this option is selected, the transfer interface will display and then the request will automatically run.

Close on completion
Specify this option to run the transfer request without displaying the transfer interface. However, any connection, progress, warning, or error messages will still display.

Complete the Wizard by clicking Next.



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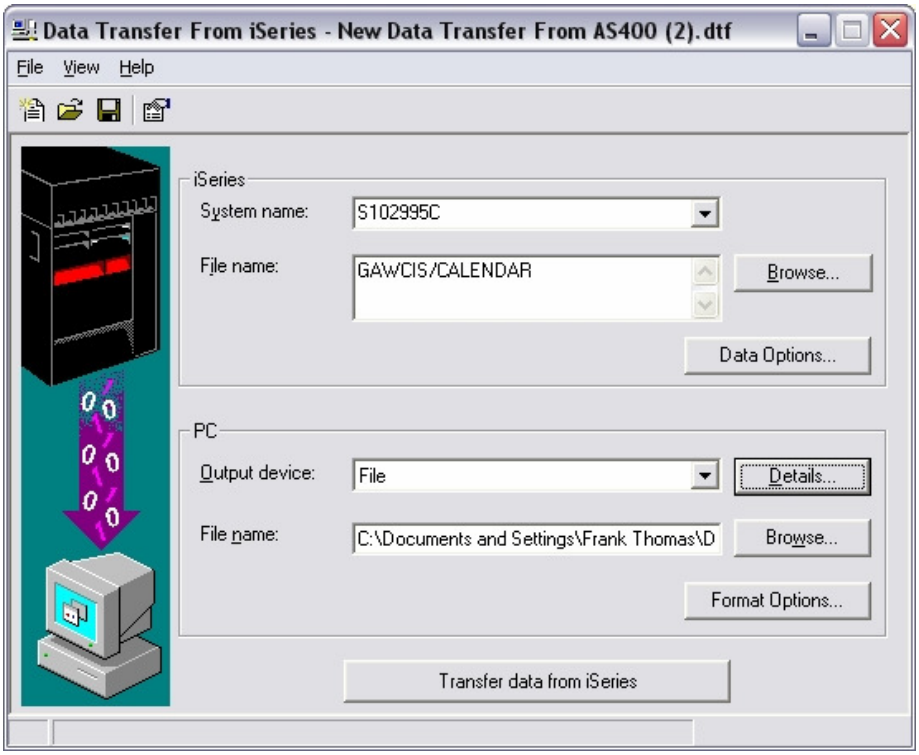
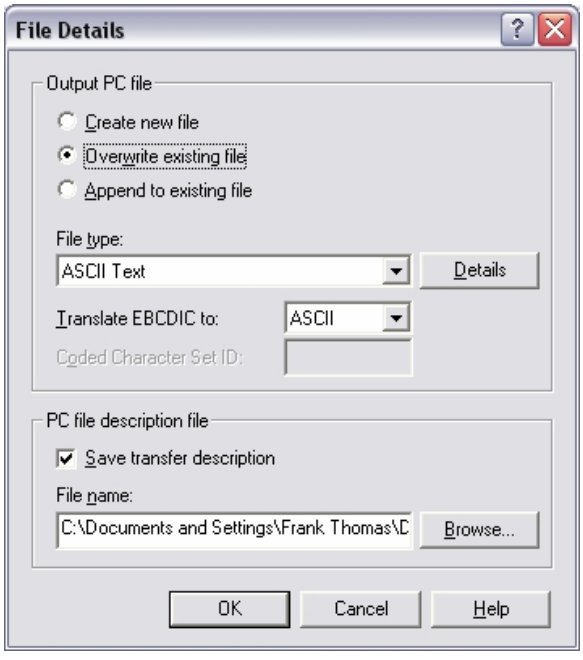


The Transfer screen is shown when the wizard is completed or when you display an existing Transfer request.

Setting Output Details



File details

Output PC file

Allows you to define:

- How to create the file containing the data from the server (Create, overwrite or append)
- Which type of file to create
- Which coded character set to translate the server data into

PC file description file

Allows you to specify the type of the PC file that contains the data you are transferring. You can also specify whether or not a PC file description file is used and the file name of the file description file.

Only need this if you want to use the file to transfer data back to the iSeries.

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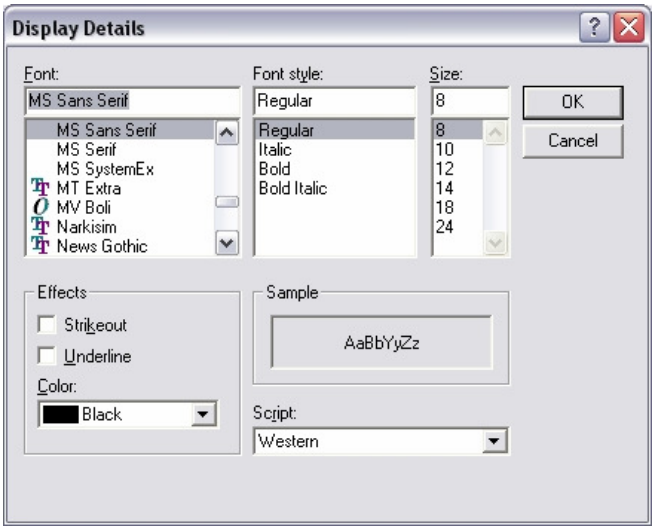
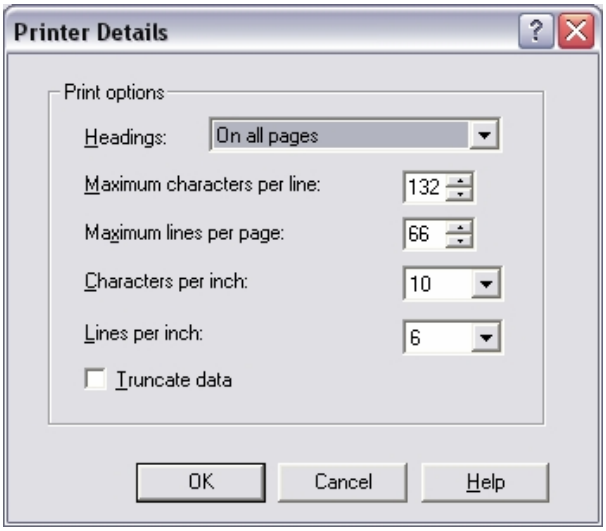
ASCII Text	Fixed Length Table
BASIC Random	
BASIC Sequential	
BIFF3 (MS Excel 3 4 5 6)	
BIFF4 (MS Excel 7)	Excel 97
BIFF5 (MS Excel 8)	Excel 2000
Comma Separated Variable	Variable length file
DIF (Lotus)	
DOS Random	
DOS Random Type 2	
No Conversion	
Tab Delimited Text*	Variable Length file
WK4(Lotus)*	Lotus 123

Display Details



Make the font small so that more will be seen on the screen.

Printer Details



This allows you to send a file to a printer not assigned to the 400

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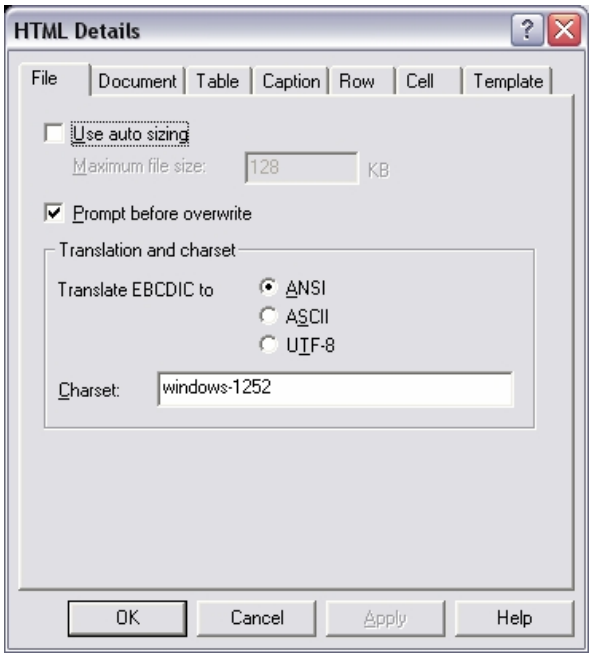
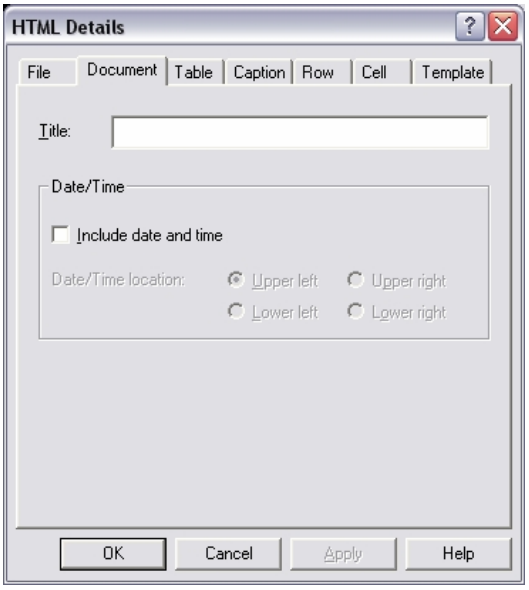
HTML Details



File tab
I seldom use this tab

Document Tab
Title
Specify the title of your HTML document. This title will appear on the title bar of the browser when the HTML file is open. If this field is left blank, Data Transfer will take the host system name along with the host file name (which you specified on the Data transfer from iSeries dialog) to use as a title name.



Date/Time
Specify if you want to include the date and time of file creation, and where to display it. Selecting Include date and time will include the data and time in the document and also enable the Date/Time location radio buttons. The Date/Time buttons allow you to specify where to display the date and time within the HTML file.

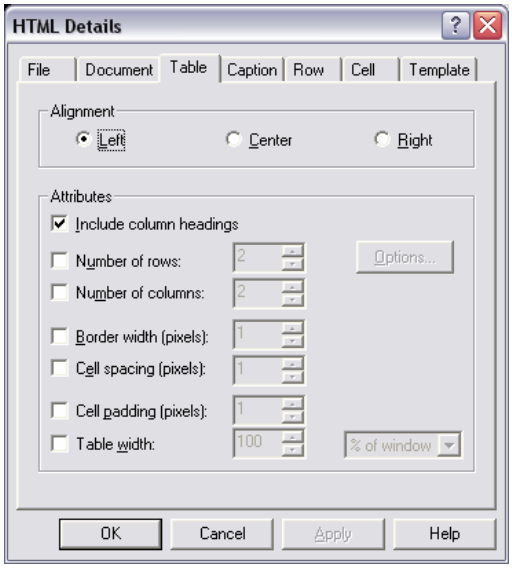


Table
Allows you to customize how the data will appear in an HTML table.

Alignment
Specify how the table will be aligned in the HTML file.
Include column heading
Select to include column headings in the HTML table. Selecting this enables the Header row attributes on the Row tab.

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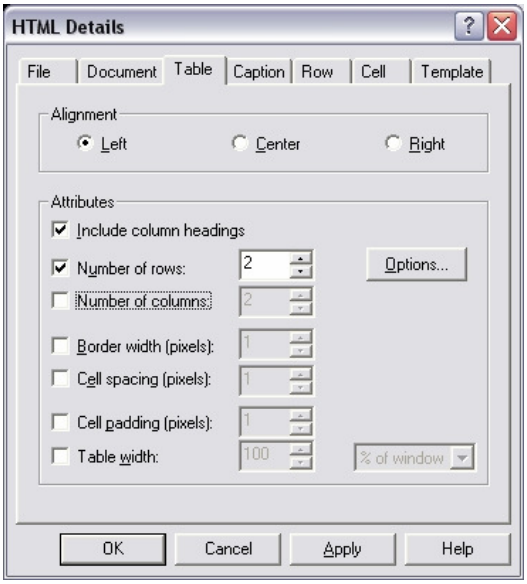
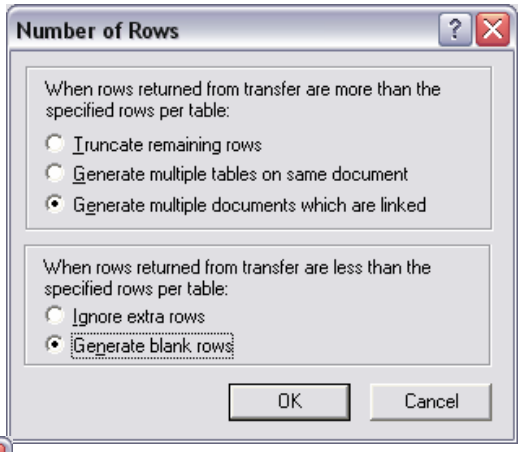
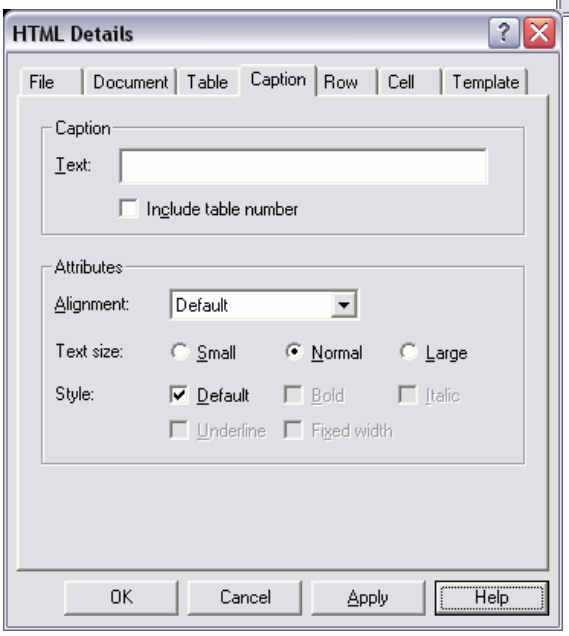


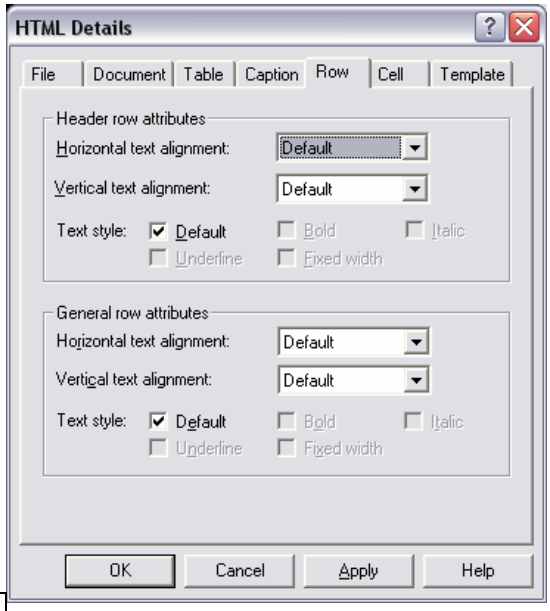
Number of rows
Select this option if you want to specify a specific number of rows to appear in a table. When selected, the Options button will be enabled.
Be careful with this option it is possible to generate thousands of files.





Caption
Allows you to specify options specific to the caption that appears.

Caption text
Specify the caption that will appear in your HTML. Leave this field blank if you do not want a caption.



Row
Allows you to set options on how data appears within the header and general rows of the HTML table.

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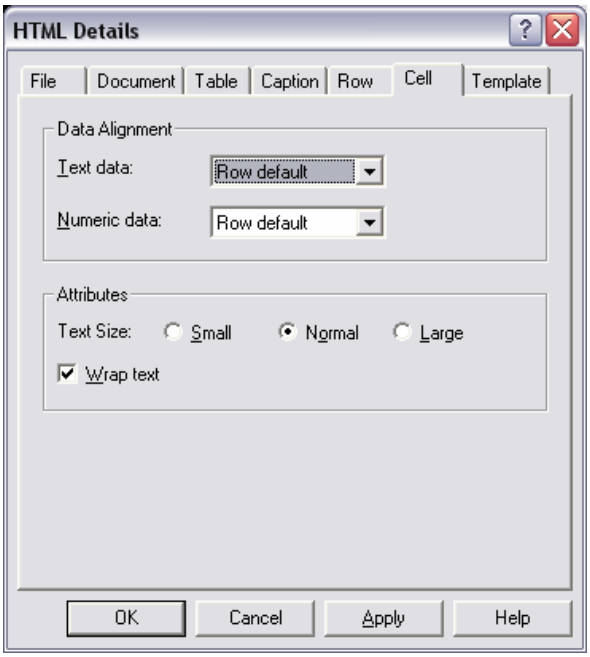
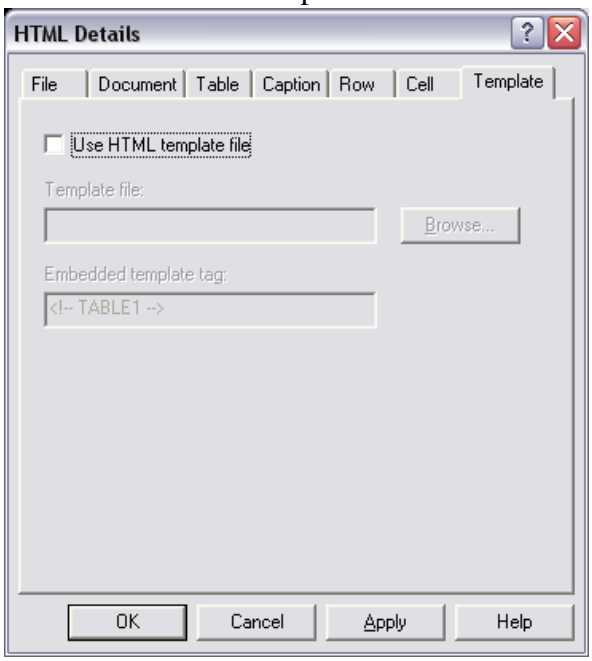


Cell
Allows you to specify how data is handled in within table cells.

Template
Allows you to dynamically update an HTML document with table data created from a transfer request. This is done using a pre-existing HTML file as a template. You will need to create this pre-existing file and insert an embedded template tag of your choosing.

When a transfer request is issued, Data Transfer will determine if the template file exists and if it contains the specified embedded template tag. If these conditions are true, Data Transfer will use the template file to build a new HTML file (which is specified on the main Data Transfer From iSeries window), replacing the embedded template tag in the template file with table data from the transfer request.



HTML sample

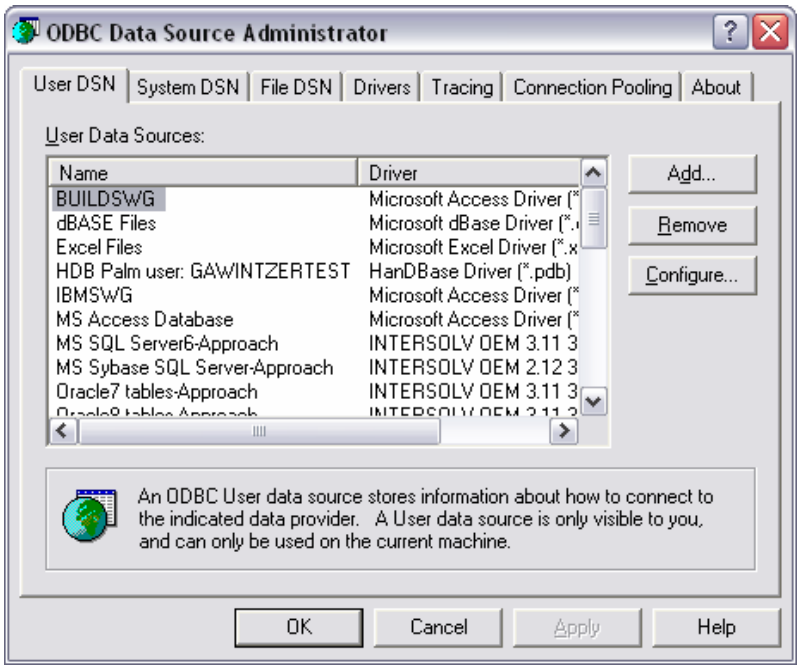
```
<HTML>
<HEAD>
<TITLE>Sample HTML
Code</TITLE>
</HEAD>
<BODY>
<H1>Customer Data</H1>
<!-- TABLE1 -->
</BODY>
</HTML>
```

Slides 57 - 58

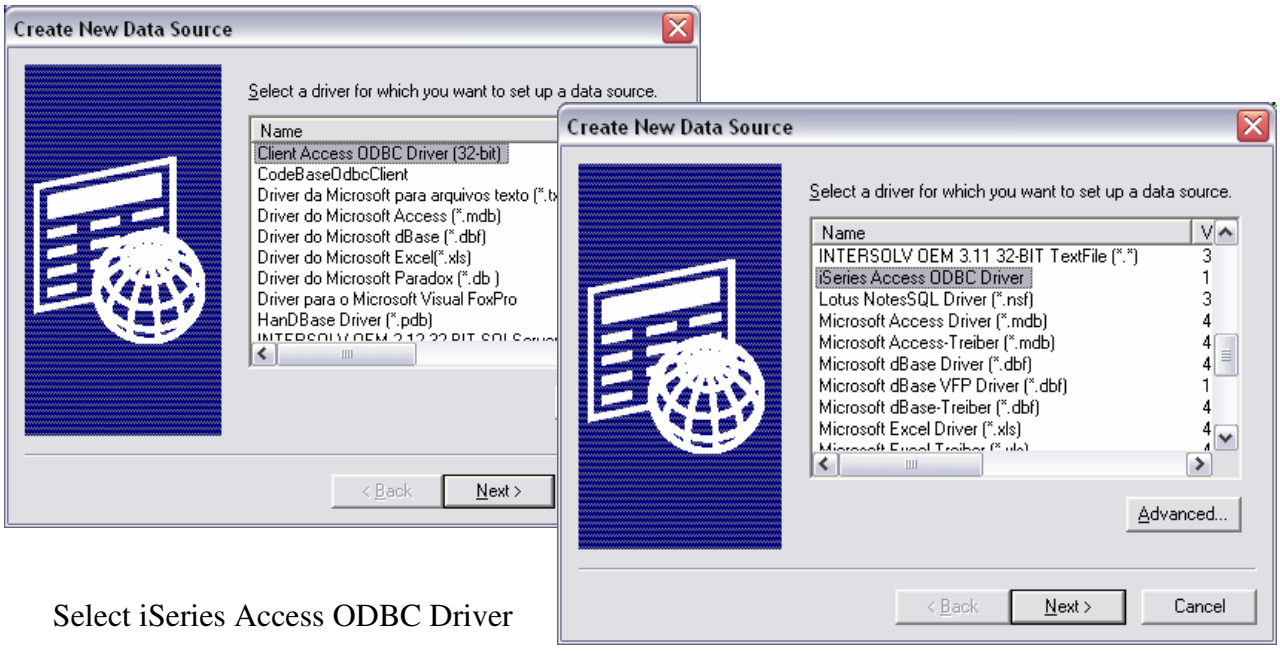
ODBC

To start ODBC DSN definition click on:

- Start
- Control Panel
- Administrative Tools
- Data source (odbc)



User DSN
These data sources are local to a computer and accessible only by the current user.
System DSN
These data sources are local to a computer but not user-dedicated; any user with privileges can access a system DSN.
File DSN
File-based data sources that can be shared among all users who have the same drivers installed. These data sources need not be user-dedicated or local to a computer.



Select iSeries Access ODBC Driver

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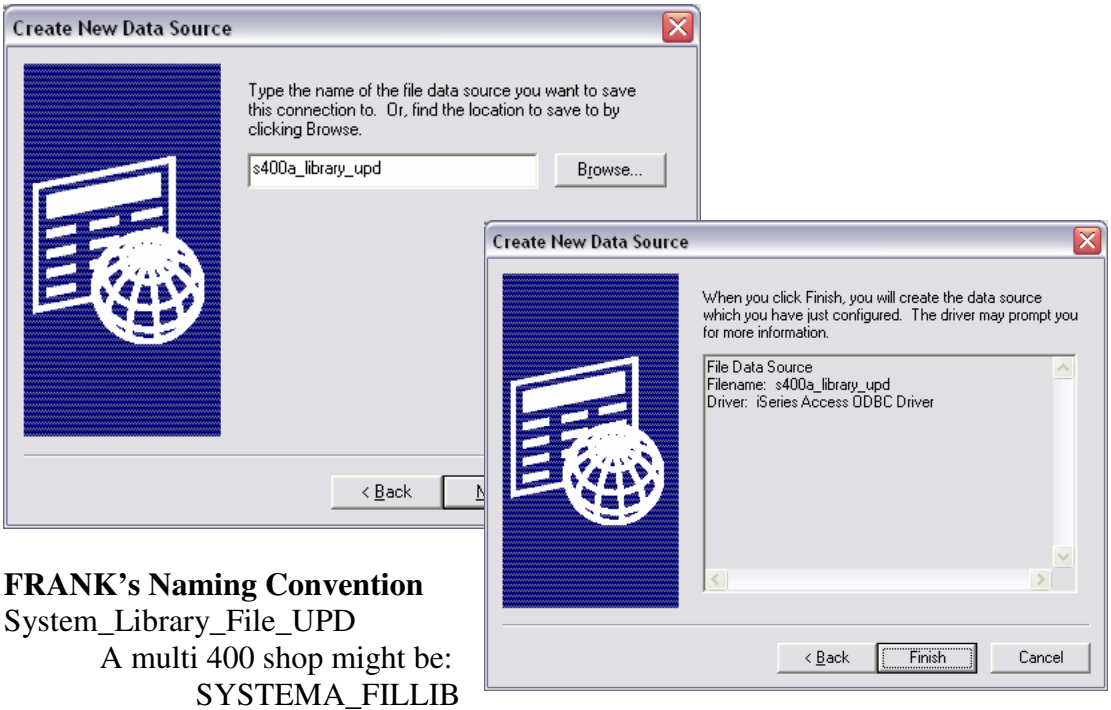
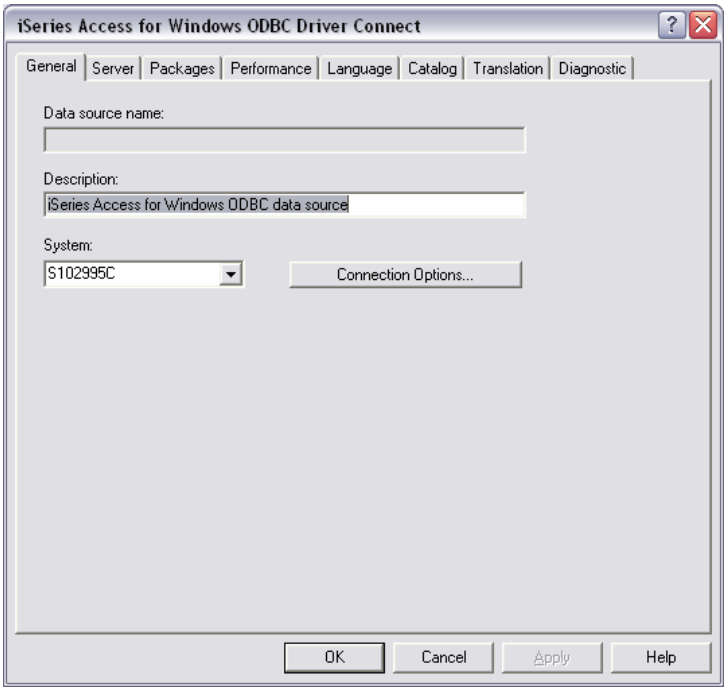


FRANK's Naming Convention
System_Library_File_UPD

A multi 400 shop might be:
SYSTEMA_FILLIB

A single 400 shop might be:
FILLIB.



Description
Provides a space for you to type a description of the data in the data source. You can type up to 80 characters.

System:
Displays the configured server that contains the data source. To change the server, you must cancel this connection and then change it through the ODBC Administrator.

Connection Options
Configures options for default user id, signon dialog prompting, and SSL

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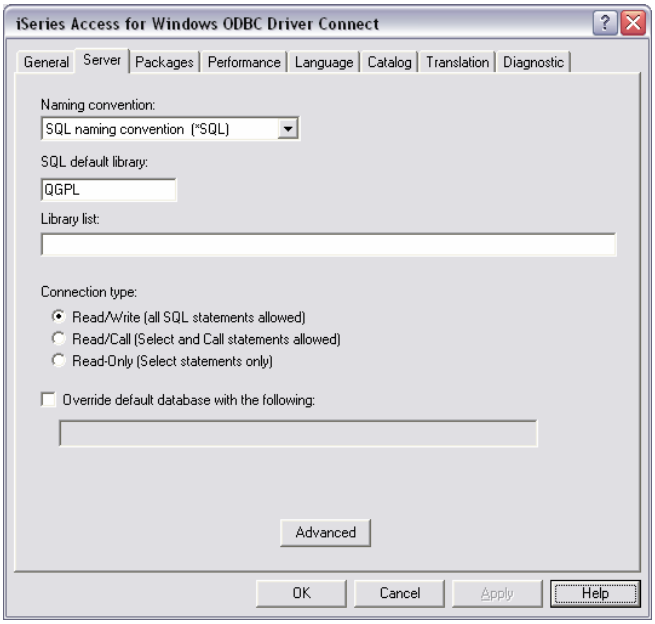

Naming convention
Specifies one of the following naming conventions. Click on the down arrow to select a new setting.

- **SQL** The SQL naming convention which uses a period (.) between the collection and table names. This is the default.
- **SYS** The SYS naming convention which uses a forward slash (/) between the library and file names.

SQL default library
Provides a space for you to type the OS/400 library that will be used as the default SQL collection.

SQL statements can be created without specifying the library that an object is located in. The objects in the SQL statement are said to be unqualified. For example, in the SQL statement SELECT* FROM QCUSTCDT, QCUSTCDT is an unqualified object. The library that is used to locate the table name QCUSTCDT is called the implicit qualifier. Notes:

- If a SQL default library is specified, it will be used as the implicit qualifier. The SQL default library will also be the first item in the library list.
- If a SQL default library is not explicitly specified one of the following will apply:
  1. For SQL naming, the implicit qualifier is the run-time authorization. This is a library with the same name as the user profile specified on the ODBC connection.
  2. For system naming, the implicit qualifier is the job library list.

Library list
Provides a space for you to type the server libraries to be used during connections to this data source. The library names can be separated by commas or spaces. You can either add the libraries to your library list or replace the list entirely. To replace the list, specify a list of library names. To add to the existing user library list, add *USRLIBL to the list of libraries. All libraries that are listed before *USRLIBL will be added to the front of the user library list. All libraries listed after *USRLIBL will be added to the end of the user library list. Notes:

- The last library in the library list will always be QIWS. This library is always added by ODBC to include the ODBC server code in the library path.
- Searching all the server libraries during a query is unnecessary and decreases performance. Specify only the libraries from which you want to access data.
- If no SQL default library is specified and the naming convention is *SYS, the library list will be searched for unqualified tables, views, and procedures. For example, if there is a table named MYTABLE in QGPL and the statement SELECT* FROM MYTABLE is specified, then the table would be found if QGPL was in the library list.

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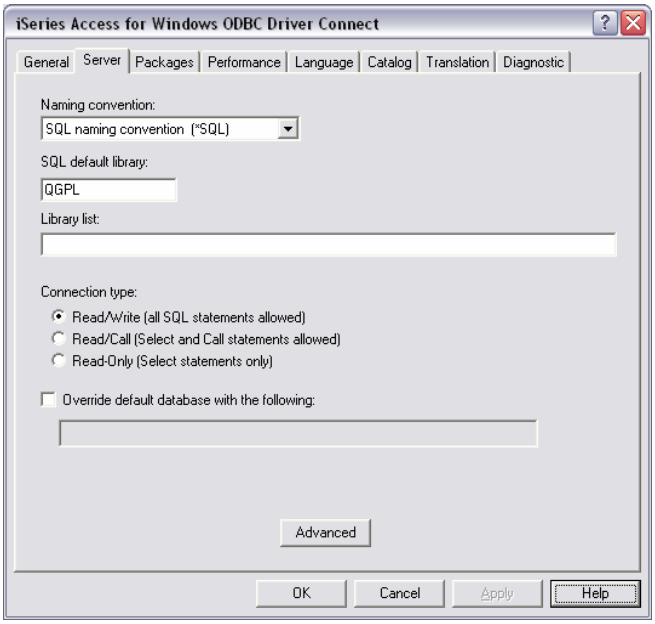
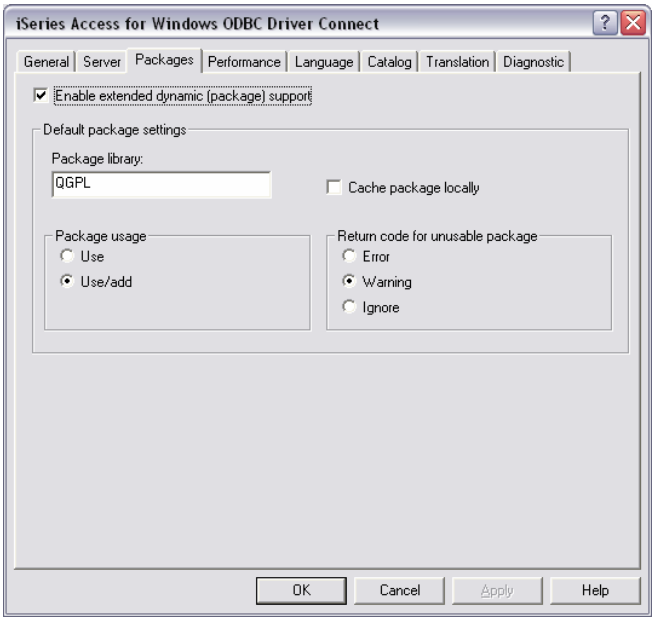


Connection type
Allows you to specify the connection type to one of the following:

- Read/Write (all SQL statements allowed) (**default**)
- Read/Call (SELECT and CALL statements only)
- Read-Only (SELECT statements only) **(SHOULD SELECT THIS ONE)**

Override default database with the following:
Provides a space for you to type in the name of a database to access on the system you are connecting to. Specifying *SYSBAS as the database name will connect a user to the SYSBAS database (RDB name). If this option is left blank, the user profile's default setting for database will be used when connecting the ODBC driver.

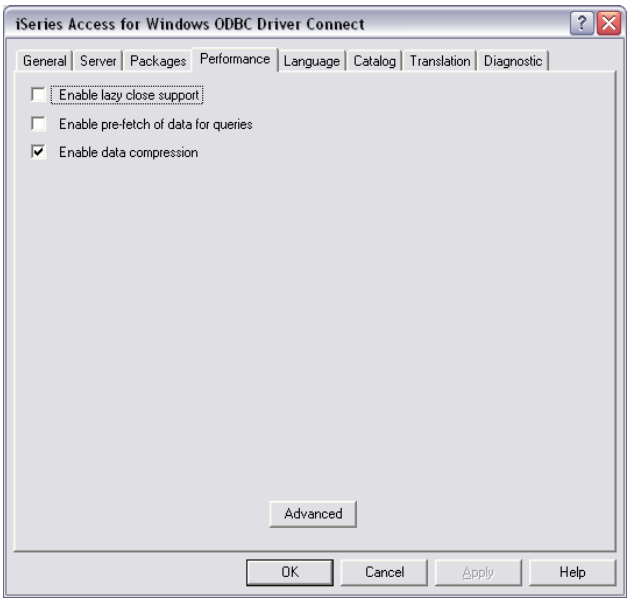


Enable extended dynamic (package) support
Specifies whether extended dynamic support is enabled. Extended dynamic support provides a way to store dynamic SQL statements in a package file on the server.

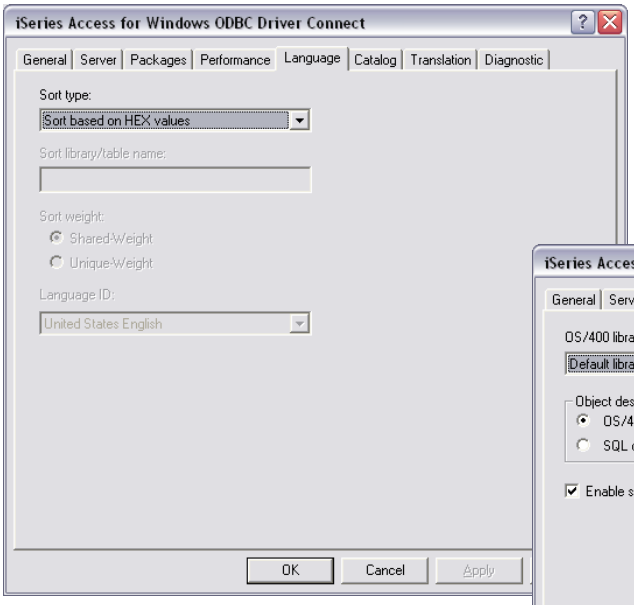
Turn this off unless you know it is needed. I have yet to use it with an MS office application.

Performance
Allows you to set up the following ODBC performance options for the iSeries database server. These options can be used to enhance the performance of ODBC applications:

Rarely use this screen

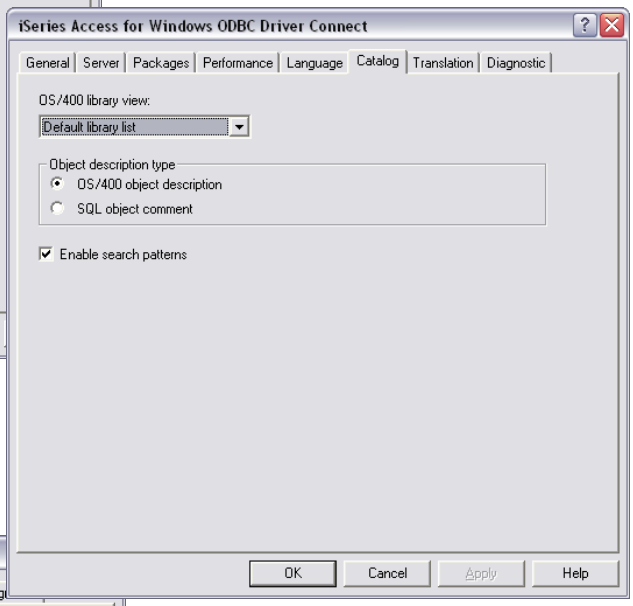


Slides 67 - 70



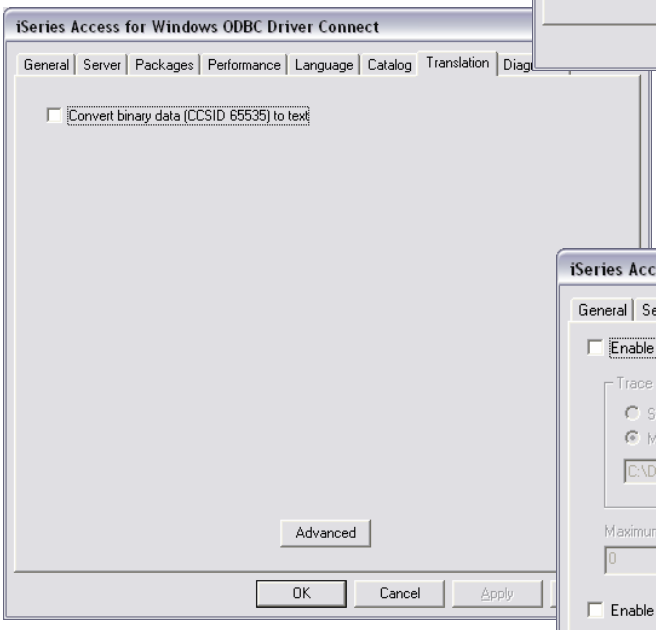
Language
Allows language options to be set

Rarely used.

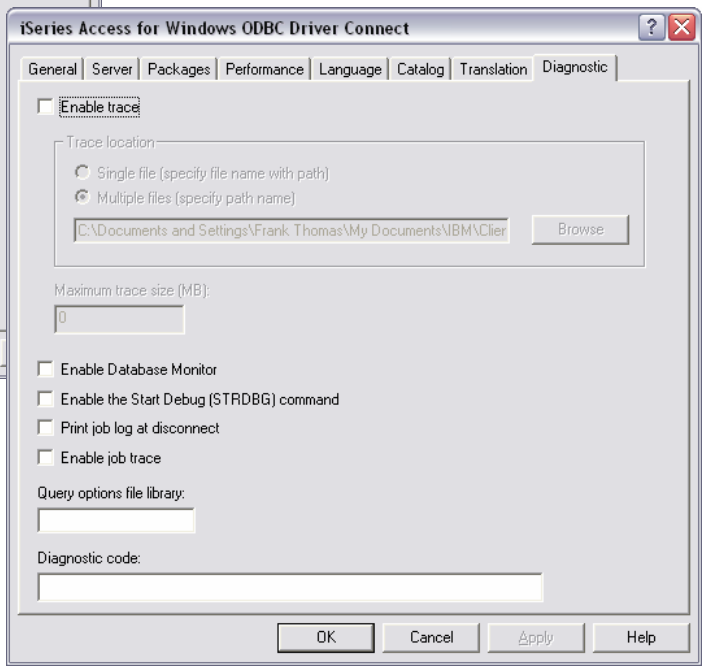


Catalog

Rarely Used



Translation
Allows you to fix the HEX problem



Diagnostics
Used by IBM if complex problems are occurring.

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SQL Keywords

Keyword	Description	Example
DECIMAL*	Returns a Packed Decimal value. (expression must be numeric)	DECIMAL(RATE*1.5,7,2)
DIGITS	Returns a character String representation of a numeric argument.	DIGITS(ZIPCD)
FLOAT	Returns a floating point Value. (expression must be numeric)	FLOAT(RATE*1.5)
HEX	Returns a Hex Value. (expression must be numeric)	HEX(RATE*1.5)
INTEGER	Returns an Integer Value. (expression must be numeric)	INTEGER(RATE*1.5)
TRANSLATE	Returns UPPERCASE string. (expression must be a valid character string)	TRANSLATE(NAME)
ZONED*	Returns a zoned decimal Value. (expression must be numeric)	ZONED(RATE*1.5,7,2)
LENGTH(exp)	Length of expression	LENGTH(ADDRESS)
STRIP(exp)	Removes blanks from the start and end of expression	STRIP(ADDRESS)
STRIP(exp,L)	Removes leading blanks from expression	STRIP(ADDRESS,L)
STRIP(exp,T)	Removes trailing blanks from expression	STRIP(ADDRESS,T)
STRIP(exp,B,c)	Removes both leading and trailing characters from expression where c is the character.	STRIP(ADDRESS,B,*)
SUBSTR(exp,n)	Returns a string of length n starting with the first position.	SUBSTR(NAME,12)
SUBSTR(exp,n,s)	Returns a string of length n starting with the s position.	SUBSTR(NAME,18,13)
AVG(exp)	Calculates the average of the expression for a group	AVG(GRADEPOINT)
MIN(exp) MAX(exp)	Calculates the minimum or maximum for an expression in a group	MIN(GRADEPOINT)
SUM(exp)	Calculates the total of the expression for a group	SUM(GRADEPOINT)
COUNT(*)	Calculates the number of records for a group	COUNT(*)
VARIANCE(exp)	Calculates the statistical variance from the mean for a group	VARIANCE(GRADEPOINT)
STDDEV(exp)	Calculates the Standard Deviation for an expression in a group	STDDEV(GRADEDPOINT)

SQL Operators:

- (+,-,*,/) Arithmetic Operators
- AND, OR, NO, IN, BETWEEN Logical Operators
- (¦¦) Concatenation Operator
- ABSVAL, ANTILOG, ASIN, ATAN, ATANH, COS, COSH, COT, EXP, LN, LOG, MOD, SIN, SINH, SQRT, TAN, TANH

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SQL Examples

Turn a date into pc format

- Date of Last Sale =
  (SUBSTR(DIGITS(CUSMS.CMLSCC*1000000+CUSMS.CMLSDT),7,2) || '/' ||
  SUBSTR(DIGITS (CUSMS.CMLSCC*1000000+CUSMS.CMLSDT),9,2) || '/' ||
  SUBSTR(DIGITS (CUSMS.CMLSCC*1000000+CUSMS.CMLSDT),3,4))

Calculate Gross margin

- Gross Margin YTD = (CUSMS.CMSLYD - CUSMS.CMCSYD)
- Gross Margin PCT YTD = (IFNULL ((CUSMS.CMSLYD -
  CUSMS.CMCSYD) / NULLIF(CUSMS.CMSLYD, 0),0)*100)

Getting it Working

Installation Tips

- If you select the Typical installation option, only the following components will be installed: **(DON'T USE TYPICAL)**
  - iSeries Navigator base support
  - Basic operations (messages, printer output, printers, and jobs)
- To install additional components after you install, use iSeries Access Selective Setup.
- If you are having trouble reading the fonts on some windows, try using a screen resolution of 1024x768 or higher.

Install from Net Server on a windows XP machine

1. Open the Windows **Start** menu.
2. Select **Search**.
3. Click **Computers or People**.
4. Click **A Computer in the Network**.
5. Specify the server name for iSeries NetServer in the appropriate field.
6. Click **Search**.
7. Double-click the computer that was found in step 3.
8. Open the **QIBM** folder.
9. Open the **ProdData** folder.
10. Open the **CA400** folder.
11. Open the **Express** folder.
12. Open the **Install** folder.
13. Open the **Image** folder.
14. Double-click **Setup.exe**. The iSeries Access for Windows Install Wizard takes you through the process of installing iSeries Access for Windows on your PC.

➢ **Note:** Ensure that you select to have the **Network** option of iSeries Navigator installed.

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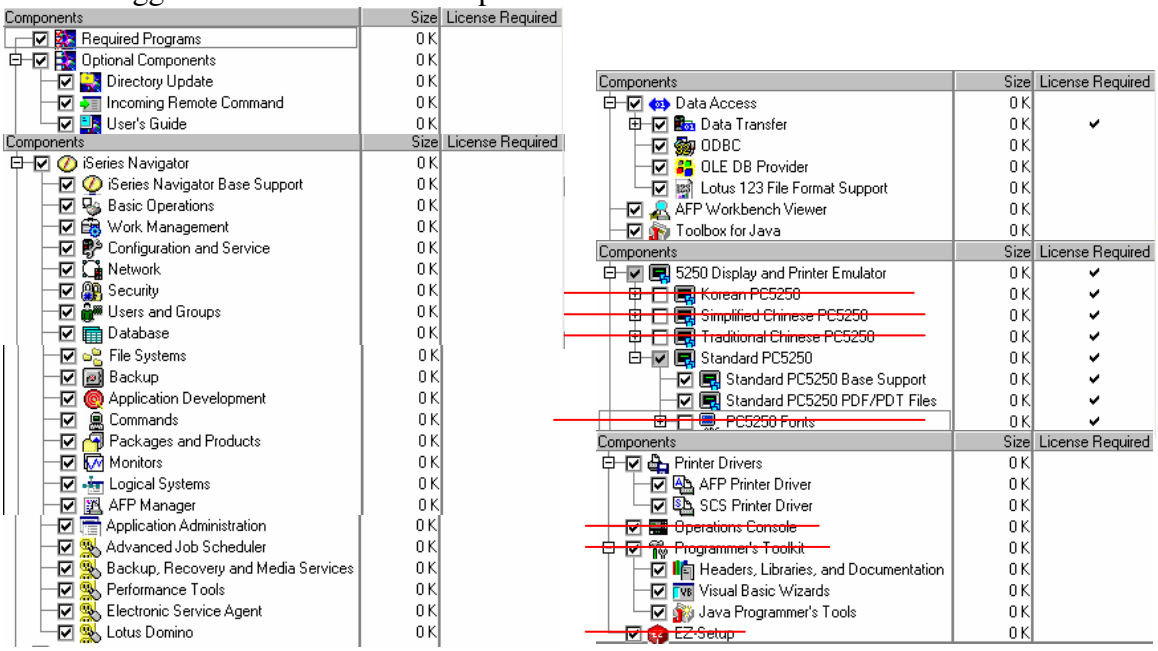
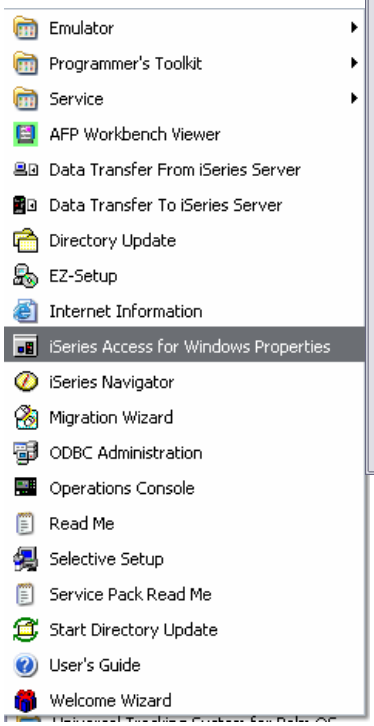
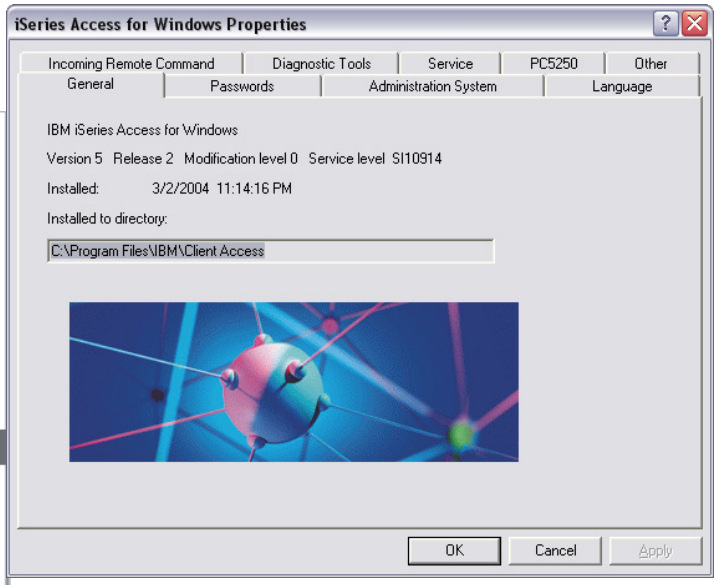
Use Selective Install if you are missing a componat

Franks Suggestions for installed components



Check PTFs/ Service pack





Compare to the internet.

http://www-1.ibm.com/servers/eserver/iseries/access/casp.htm

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MS Office What version

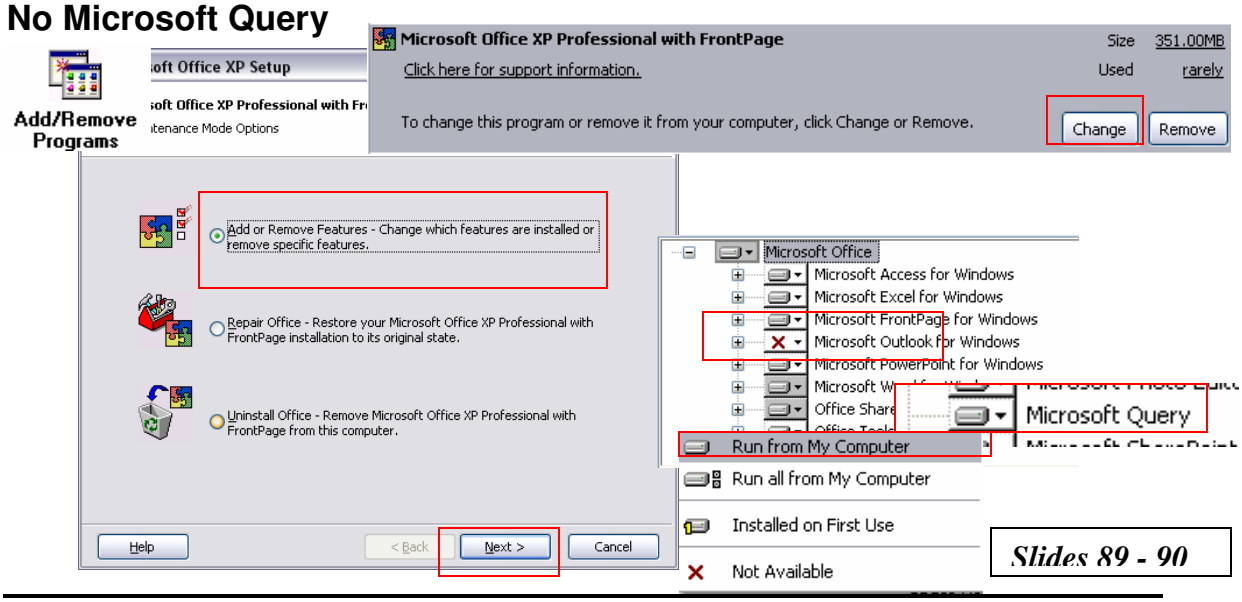
Most of the techniques discussed work in Office 200 and above. Each new release causes some changes in how options work. There was a huge change in WORD between office 2000 and office XP.

Current Office Packages:

Introducing Microsoft Office 2003

Microsoft® Office 2003 Editions include new and enhanced functionality and productivity tools to connect people, information, and business processes—making it easier for people to take more effective action and get better results. The variety and number of Office programs available depends on the Office 2003 Edition you purchase and install. To find out what's new and enhanced for all the programs in the Microsoft Office System, click any Office program name below: **Microsoft Office Student and Teacher Edition 2003**Microsoft Office Word 2003Microsoft Office Excel 2003Microsoft Office PowerPoint® 2003Microsoft Office Outlook® 2003**Microsoft Office Standard Edition 2003**Microsoft Office Word 2003Microsoft Office Excel 2003Microsoft Office PowerPoint® 2003Microsoft Office Outlook® 2003**Microsoft Office Small Business Edition 2003**Microsoft Office Word 2003Microsoft Office Excel 2003Microsoft Office PowerPoint® 2003Microsoft Office Outlook® 2003Microsoft Office Publisher 2003**Microsoft Office Professional Edition 2003**Microsoft Office Word 2003Microsoft Office Excel 2003Microsoft Office PowerPoint® 2003Microsoft Office Outlook® 2003Microsoft Office Publisher 2003Microsoft Office Access 2003In addition, the Microsoft Office System includes the following standalone products:
Microsoft Office FrontPage® 2003
Microsoft Office InfoPath™ 2003 (also included in the Professional Edition in volume licensing situations)
Microsoft Office Project 2003
Microsoft Office OneNote™ 2003
Microsoft Office Visio® 2003

No Microsoft Query



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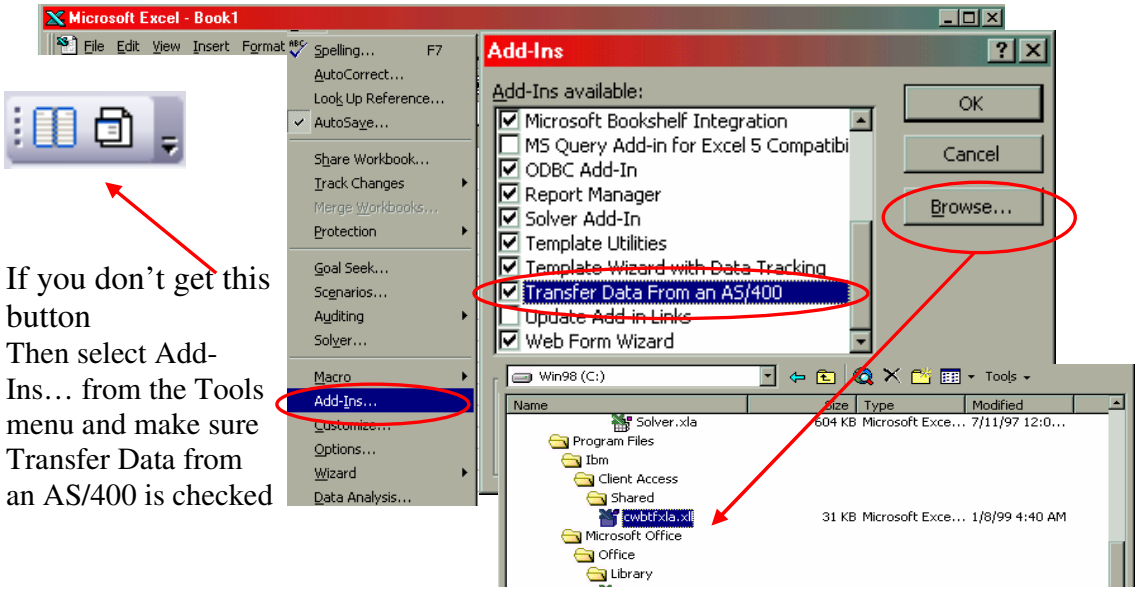
No Magic Button

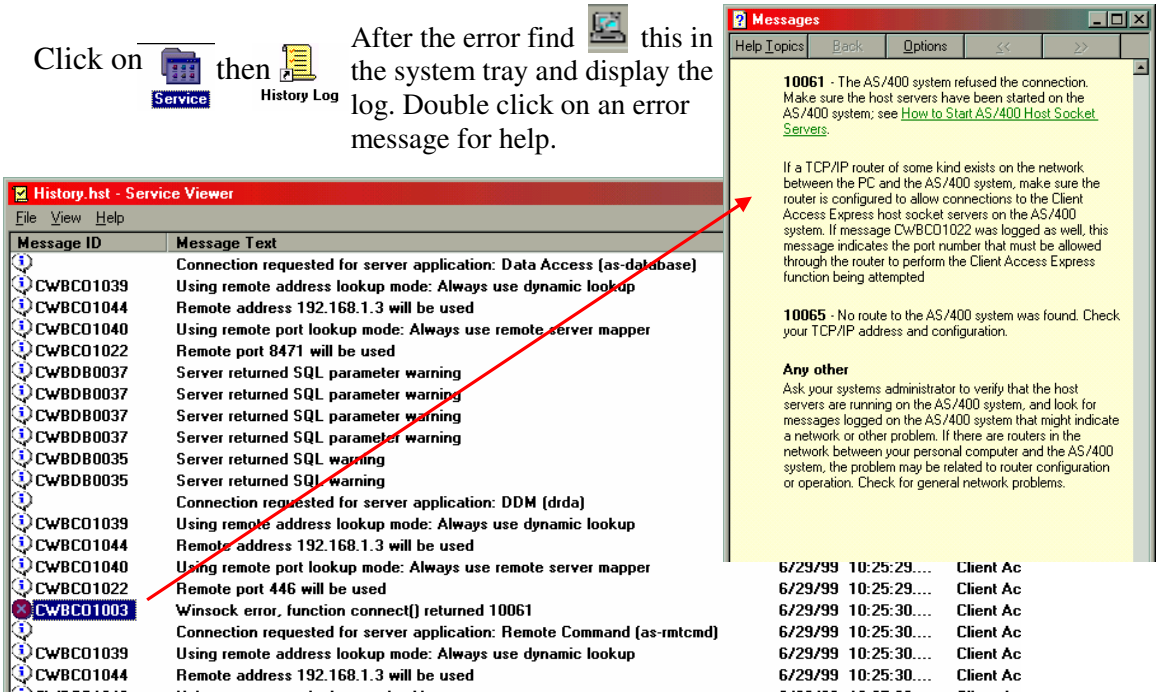


If you don't get this button
Then select Add-Ins… from the Tools menu and make sure Transfer Data from an AS/400 is checked

Trouble shooting

Click on Service then History Log

After the error find this in the system tray and display the log. Double click on an error message for help.



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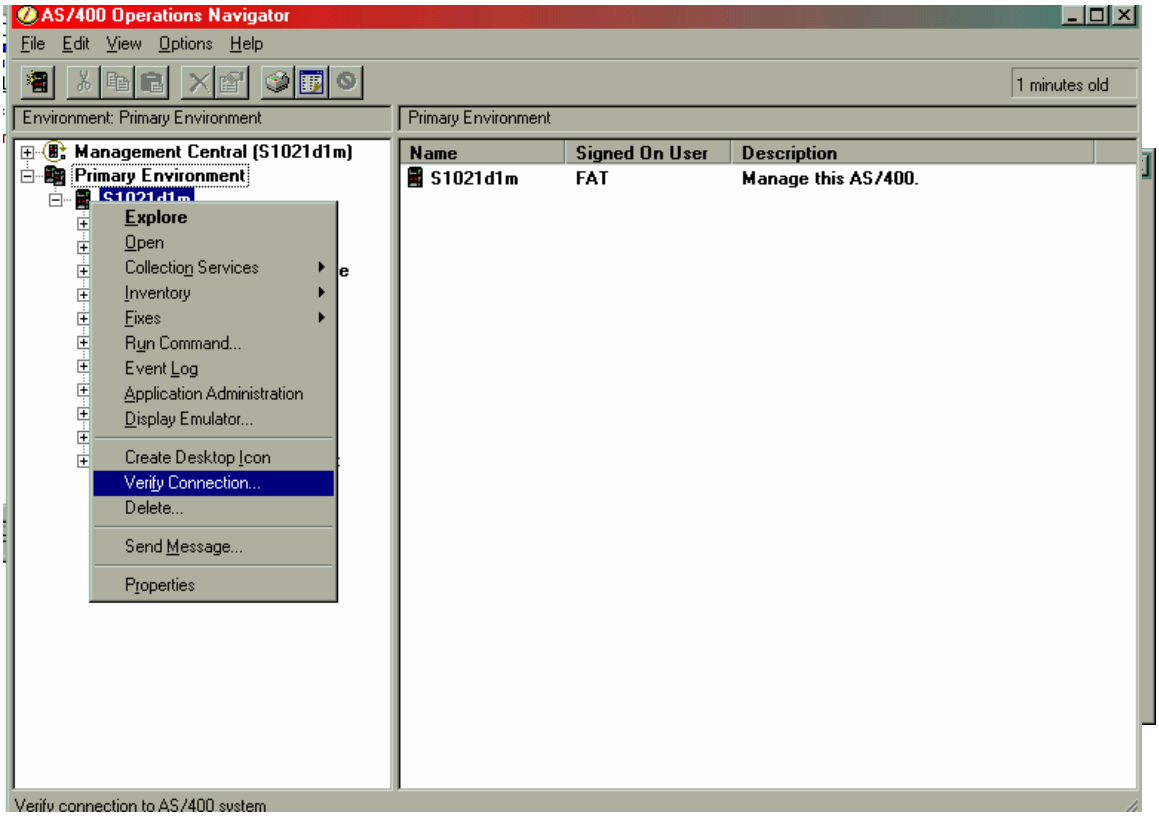
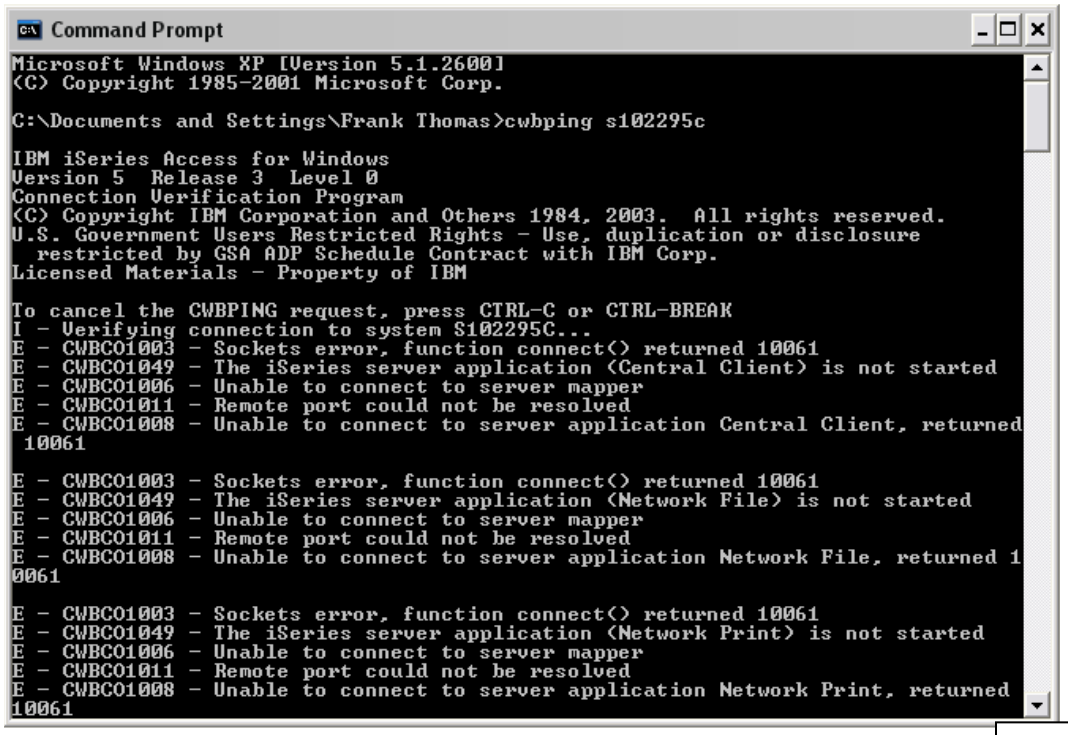
Verify Connection



CWBPING



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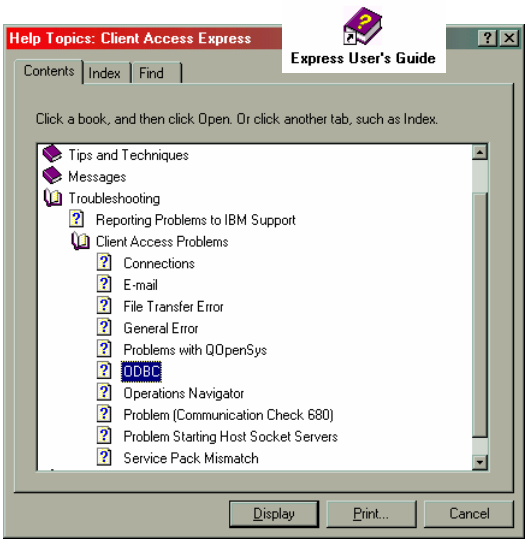
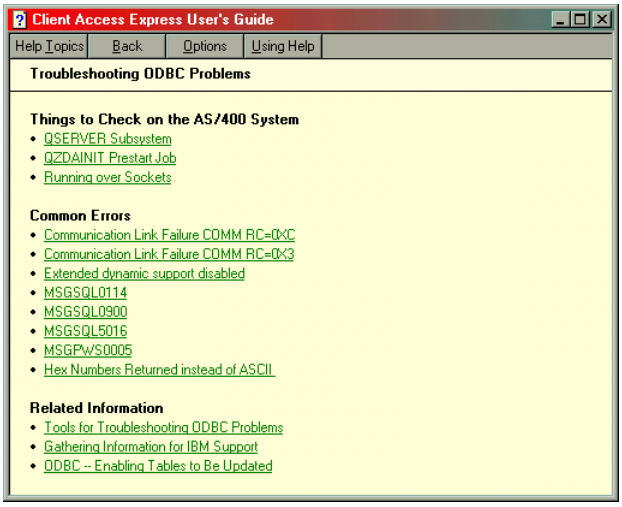
Troubleshooting

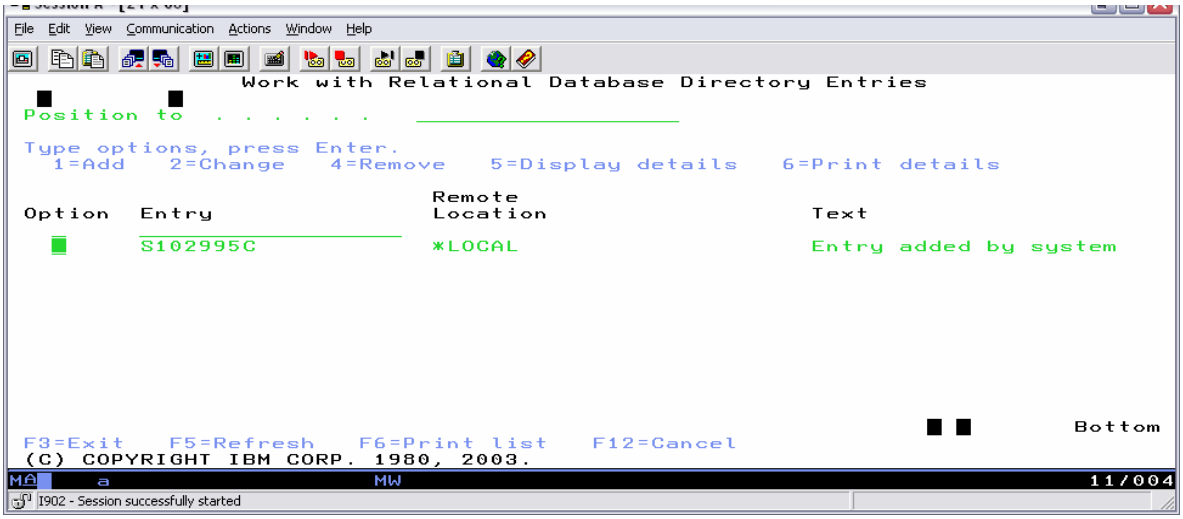




http://www-1.ibm.com/servers/eserver/iseries/access/caiiapar.htm

Other Issues

Must have a Data Base Name on the 400
WRKRDBDIRE



Performance Tips
There is very little you can do. Most performance issues are set by the programs. But here is a few. Except, get current since IBM has improved the performance of both File transfer and ODBC in almost every release.

- Faster Hardware, smaller files
- Blocking factor on ODBC can help, however it depends totally on what you are doing and every individual transfer would have to be tested to prove if it faster
- Don't use commitment control unless you have to.

Slides 95 - 97

Web References

- ODBC & FTP
  - http://www.microsoft.com/data/odbc/
  - http://www-1.ibm.com/servers/eserver/iseries/access/oledb/
- Other Products
  - http://www.datawatch.com/dataconversionsoftware/datawatch-report-mining-server.asp
  - http://www.mochasoft.dk/tn5250.htm
  - http://www-306.ibm.com/software/network/pcomm/about/
  - http://www-306.ibm.com/software/webservers/hostondemand/
- Setup & Troubleshooting
  - http://www-1.ibm.com/servers/eserver/iseries/access/caiiapar.htm
  - http://www-1.ibm.com/servers/eserver/iseries/access/
  - http://publib.boulder.ibm.com/pubs/html/as400/infocenter.html
  - http://office.microsoft.com/en-us/assistance/default.aspx

Thank You

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