

iWay

Catalog Administrator Manual
Version 5 Release 2.0

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Preface

This documentation describes how to use and install the Catalog Administrator. It is intended for the person(s) who will install the Catalog Administrator and configure servers.

How This Manual Is Organized

This manual includes the following chapters:

Chapter		Contents
1	<i>Catalog Administrator Overview</i>	This chapter describes the processes of the Catalog Administrator.
2	<i>Using the Catalog Administrator Main Screen</i>	This chapter describes how to use the Catalog Administrator main screen.
3	<i>Creating Synonyms</i>	This chapter describes how to create synonyms for data sources.
4	<i>Stored Procedures</i>	This chapter describes how to catalog stored procedures.

Documentation Conventions

The following conventions apply throughout this manual:

Convention	Description
THIS TYPEFACE or <i>this typeface</i>	Denotes syntax that you must enter exactly as shown.
<i>this typeface</i>	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.
<u>underscore</u>	Indicates a default setting.
<i>this typeface</i>	Represents a placeholder (or variable) in a text paragraph, a cross-reference, or an important term.
this typeface	Highlights a file name or command in a text paragraph that must be lowercase.
<i>this typeface</i>	Indicates a button, menu item, or dialog box option you can click or select.

Convention	Description
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices; type one of them, not the braces.
[]	Indicates a group of optional parameters. None are required, but you may select one of them. Type only the parameter in the brackets, not the brackets.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis points (...).
.	Indicates that there are (or could be) intervening or additional commands.

Related Publications

Visit our World Wide Web site, <http://www.iwaysoftware.com>, to view a current listing of our publications and to place an order. You can also contact the Publications Order Department at (800) 969-4636.

Customer Support

Do you have questions about iWay Catalog Administrator?

Call Customer Support Service (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 a.m. and 8:00 p.m. EST to address all your iWay questions. Our consultants can also give you general guidance regarding product capabilities and documentation. Please be ready to provide your six-digit site code number (xxxx.xx) when you call.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our World Wide Web site, <http://www.iwaysoftware.com>. It connects you to the tracking system and known-problem database at our support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of www.informationbuilders.com also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

To learn about the full range of available support services, ask your iWay Software representative about InfoResponse Online, or call (800) 969-INFO.

Information You Should Have

To help our consultants answer your questions most effectively, be ready to provide the following information when you call:

- Your six-digit site code number (xxxx.xx).
- Your iWay Software configuration:
 - The iWay Software version and release.
 - The communications protocol (for example, TCP/IP or LU6.2), including vendor and release.
- The stored procedure (preferably with line numbers) or SQL statements being used in server access.
- The database server release level.
- The database name and release level.
- The Master File and Access File.

- The exact nature of the problem:
 - Are the results or the format incorrect? Are the text or calculations missing or misplaced?
 - The error message and return code, if applicable.
 - Is this related to any other problem?
- Has the procedure or query ever worked in its present form? Has it been changed recently? How often does the problem occur?
- What release of the operating system are you using? Has it, your security system, communications protocol, or front-end software changed?
- Is this problem reproducible? If so, how?
- Have you tried to reproduce your problem in the simplest form possible? For example, if you are having problems joining two data sources, have you tried executing a query containing just the code to access the data source?
- Do you have a trace file?
- How is the problem affecting your business? Is it halting development or production? Do you just have questions about functionality or documentation?

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Thank you, in advance, for your comments.

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CHAPTER 1

Catalog Administrator Overview

Topics:

- Catalogs and the iWay Dynamic Catalog
- The Catalog Administrator
- Overview of the Microsoft Management Console
- Installing the Catalog Administrator

This topic describes how you can use the Catalog Administrator to maintain and report from the Catalog.

Catalogs and the iWay Dynamic Catalog

A catalog is a collection of data that describes objects used by an application or program. For example, Relational Database Management Systems (RDBMS) use catalogs to collect information about databases, table contents, and authorized users. Like an RDBMS, the server also maintains a catalog called the Dynamic Catalog. The Dynamic Catalog is a collection of data about data sources, stored procedures, and other objects.

The Dynamic Catalog is comprised of the following:

- Four **dynamic tables** that are automatically generated using an internal metadata interface. When a client application queries the dynamic tables, the most recent metadata is always available and is reflected in the response to the client's query.
- One **static table** implemented as internal data sources. This table must be manually maintained in order to reflect additions and deletions to the runtime environment. You can maintain this table with the Catalog Administrator.

The Catalog Administrator

The Catalog Administrator is a snap-in to the iWay Data Management Console, and is used to maintain and report from the Catalog on either a Full-Function or Hub Server. The Catalog Administrator is a single-user application. Only the Data Administrator should maintain the catalog.

The Catalog Administrator enables the Data Administrator to:

- Create, maintain, and drop synonyms for data sources.
- Catalog and uncatalog stored procedures—add, update, and delete parameter information for cataloged stored procedures.

This manual provides full, step-by-step instructions on specific tasks performed using the Catalog Administrator.

Overview of the Microsoft Management Console

In the past, network administrators relied on various management tools that offered no integration and presented the user with inconsistent interfaces. The Microsoft® Management Console (MMC) is Microsoft's answer to this problem. The purpose of the MMC is to support simplified administration through integration.

MMC is a host that contains programs called *snap-ins*, which extend the console to offer the administrator management capabilities. Using COM/DCOM technology and the Microsoft Management Console, the *Catalog Administrator* can be deployed and managed on multiple machines on your network.

Installing the Catalog Administrator

To install the Catalog Administrator for Windows® 98 or Windows NT/2000, see the *Data Management Administration Tools Suite Installation* manual.

CHAPTER 2

Using the Catalog Administrator Main Screen

Topics:

- Working With the Microsoft Management Console
- Registering the Servers
- Catalog Administrator Objects

Before you can use the Catalog Administrator, you must access the main screen and then register the server.

Working With the Microsoft Management Console

The Microsoft Management Console (MMC) consists of one or more windows that assemble the tools, controls, tasks, and documentation required to administer specific components of the Windows NT network. Consoles are saved as files with an .msc extension. All of the configuration settings for the tools and controls are saved in the console file and restored when the file is opened.

Using Snap-ins

A snap-in is the basic component of the MMC. Snap-ins always reside in the console. They cannot run by themselves. When a component is installed on the Windows NT operating system and a snap-in is associated with it, the snap-in becomes available to anyone using the console.

Viewing the Microsoft Management Console Window

The Microsoft Management Console (MMC) consists of a window divided into the following two panes:

- **Console Tree.** Displays the snap-ins available in the console.
- **Details Pane.** Displays information about and functions relating to the snap-ins.

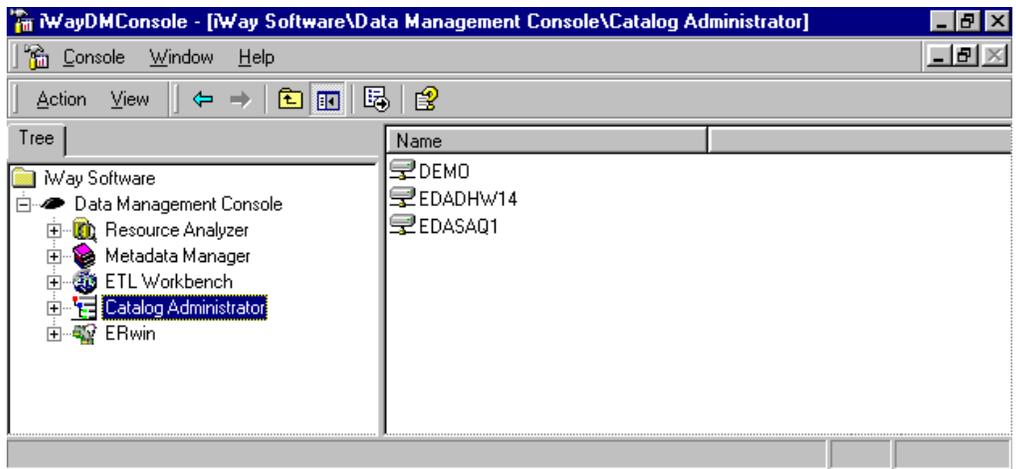
Catalog Administrator is a Microsoft Management Console (MMC) snap-in to the iWay Data Management Console.

Procedure **How to Access the Data Management Console**

To launch the iWay Data Management Console from the Start Menu:

1. Select *Programs*.
2. Select *Data Management Administration Tools*.
3. Click *Data Management Console*.

The iWay Data Management Console displays:



As you click different snap-ins in the console tree, the contents of the details pane change.

Registering the Servers

You must register any servers you want to administer before you can use the Catalog Administrator. You will then connect to the servers and begin your administration tasks.

Procedure How to Register Servers

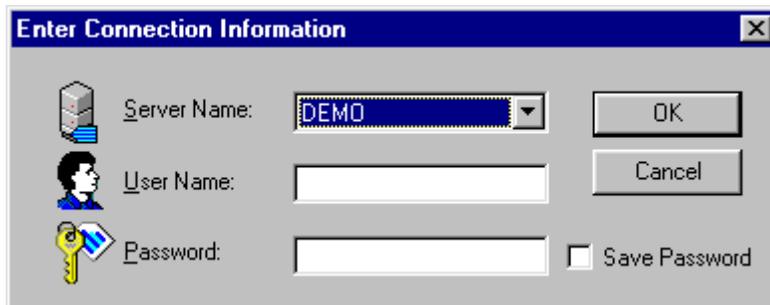
1. Right-click the *Catalog Administrator*.
2. Select *Register Server* from the context menu.
3. Select the appropriate server from the drop-down list.
4. Enter a valid user ID and password.
5. Click *Save Password* if you do not want to enter your password each time you reconnect.
6. Click *OK*.

Once you have completed the registration, you can connect to the server and begin your administration tasks.

Procedure How to Connect to a Server

1. Expand the Catalog Administrator to display registered servers.
2. Right-click a server and select *Connect* from the context menu.

The Enter Connection Information window displays:

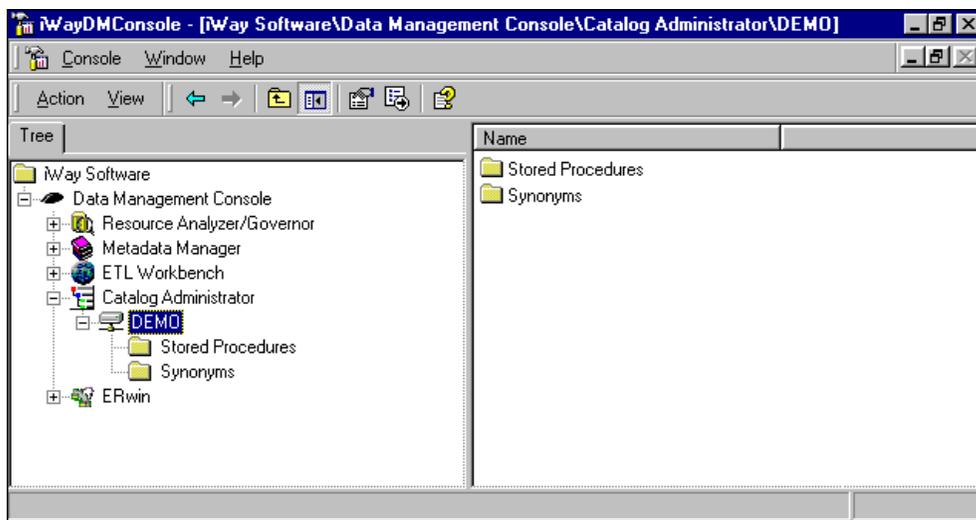


This table describes the fields on the Enter Connection Information window:

Field	Description
Server Name	Server you choose to connect to.
User Name	User ID for connecting to the server.
Password	User Password to connect to the server.

3. If the server has security enabled, you need to enter the User Name and Password for the chosen server.
4. Click *Save Password* if you do not want to enter your password each time you reconnect.
5. Click *OK* to continue.

The Catalog Administrator objects display:



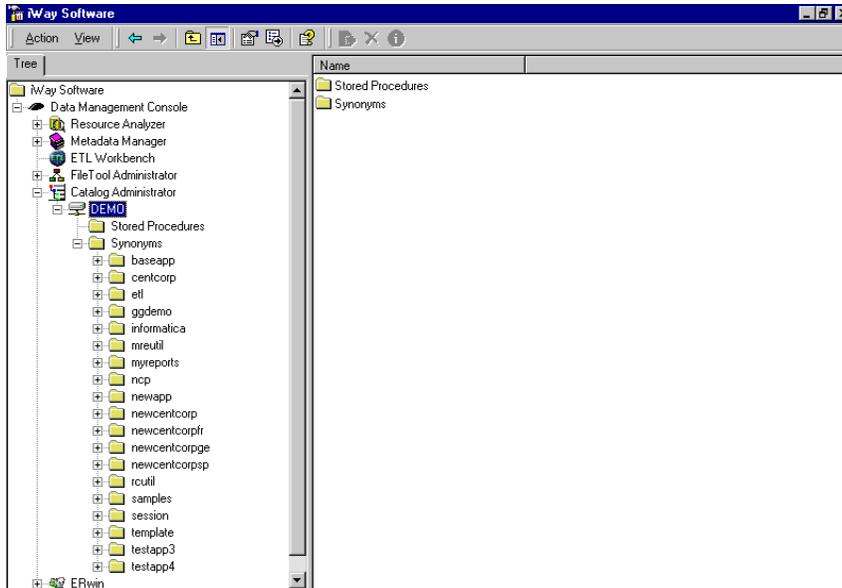
6. Repeat steps 1 through 5 to connect to more than one server at a time.

Procedure How to Disconnect From a Server

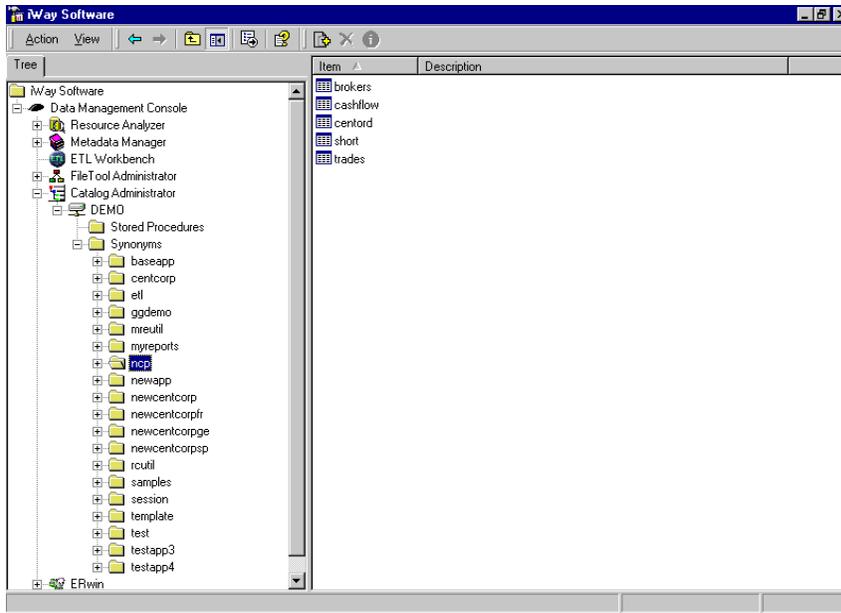
1. Right click the server from which you want to disconnect.
2. From the Context menu select *Disconnect*.
3. To exit the Data Management Console choose *Exit* from the Console menu.

Catalog Administrator Objects

After entering the user ID and the password for the server, the Catalog Administrator objects display. Expanding the Synonyms object displays a list of application directories:



Clicking on an application directory displays the synonyms in that application directory.

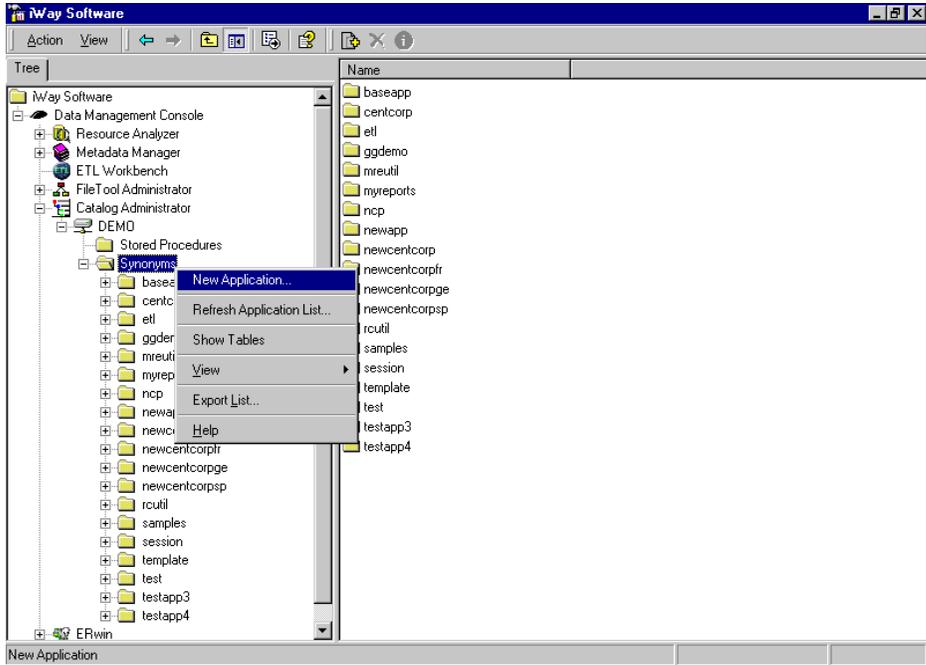


Procedure How to Select the Context Sensitive Menu Options

1. Select a Catalog Administrator object, either Stored Procedures, Synonyms, or an application directory.

2. Right-click the selected object.

The context menu displays:



The following table describes the context menu's options and their functions:

Options	Function
New Application	Allows you to create new application directories.
Refresh Application List	Re-reads the list of application directories from the server to refresh the displayed list.
Show Tables	Allows you to view both synonyms and tables. By default, only synonyms are displayed. Note: This option only exists for synonyms.
New Synonym	Allows you to create new synonyms for data sources.
Refresh Synonyms/ Stored Procedure List	Re-reads the list of objects—Stored Procedures or Synonyms—from the server to refresh the displayed list.

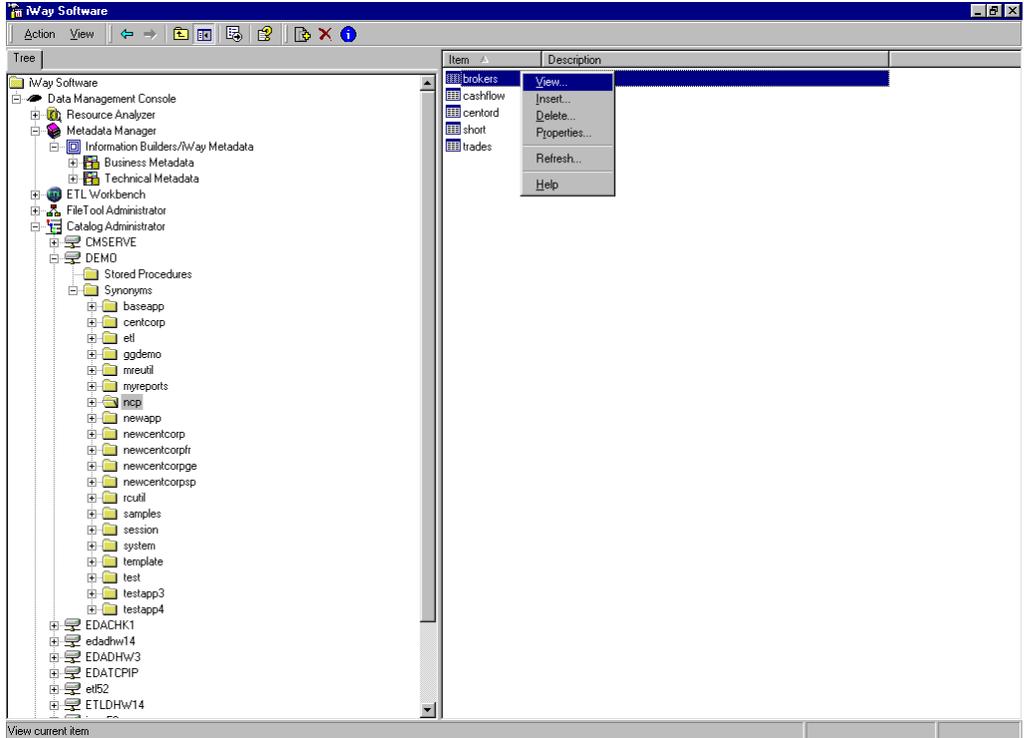
Options	Function
Refresh Catalog	Re-reads the list of Stored Procedures, Tables, and Synonyms from the server.
Rename Application	Allows you to rename an application directory.
Delete Application	Allows you to delete an application directory.

Procedure **How to Refresh the List of Stored Procedures and Synonyms**

1. To refresh the list of Stored Procedures or Synonyms, right-click the appropriate object.
2. Do one of the following:
 - From the context menu displayed for a Stored Procedure, select *Refresh Stored Procedure List*.
 - or
 - From the context menu displayed for an application directory, select *Refresh Synonym List*.

Object Menu Options

You can also view menu options by right-clicking an object in the details pane.



The following table describes object menu options and their functions:

Option	Function
View	Lets you view a stored procedure or the Master and Access Files that make up a synonym.
Insert	Allows you to add a new Stored Procedure or Synonym.
Delete	Allows you to delete a particular Stored Procedure or Synonym
Properties	Displays the attributes of a particular item.
Refresh	Refreshes the synonym on the server.

The following table describes the toolbar buttons and their functions.

Button	Function
	Insert. Allows you to add new synonyms or stored procedures.
	Delete. Allows you to delete a synonym or stored procedure. Note: This button is gray unless you select an item.
	Metadata Properties. Displays metadata about synonyms or stored procedures. Note: This button is gray unless you select an item.
	Help. Accesses general background and troubleshooting information about the Microsoft Management Console.

CHAPTER 3

Creating Synonyms

Topics:

- Viewing Synonyms and Tables
- Displaying Available Sources
- Selecting a Synonym Source
- Selecting a Database
- Selecting Table/Views
- Assigning Synonym Names
- Deleting Synonyms
- Viewing Properties of a Synonym

A synonym is an alias for a data source that tells the server where to find tables and how they are described. A synonym consists of two files:

- A **Master File**, which contains an alias for the data source, as well as field names and formats for the columns in the data source.
- An **Access File**, which contains additional information, including the real name and location of the data source.

Catalog Administrator allows you to create synonyms for local or remote data sources and automatically adds this metadata to the Dynamic Catalog.

Data sources can be:

- **Local data sources.** Relational data sources on the server you are connected to.
- **Remote data sources.** Reside on a subserver (either a Full-Function Server or a Relational Gateway).

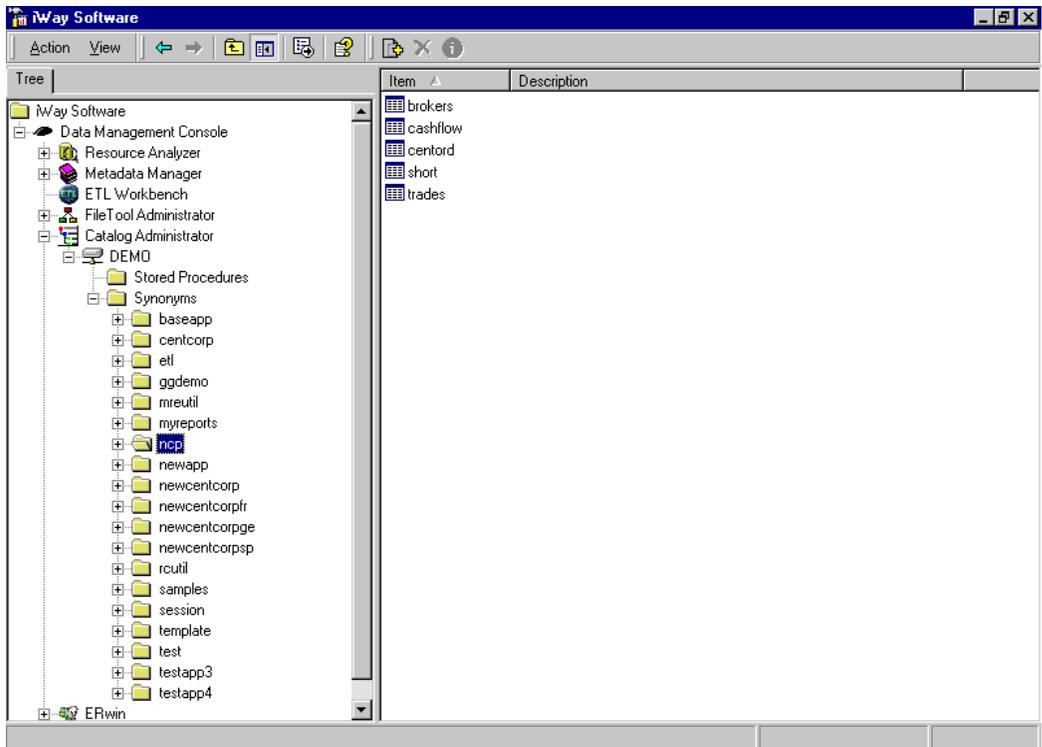
Viewing Synonyms and Tables

You can access synonyms from the details pane in the Data Management Console window.

Procedure How to Open the List of Synonyms

To open the list of synonyms, expand the *Synonyms* object and click on an application directory.

A list of existing synonyms is displayed in the details pane of the window:



Procedure How to Display Tables and Synonyms

By default, only synonyms display on the Catalog Administrator main screen. To display both synonyms (those pointed to by EDASYN) and tables (all user created Master Files in the server's search path), follow these steps:

1. Right-click the *Synonyms* object to display the context menu.
2. Select *Show Tables*.

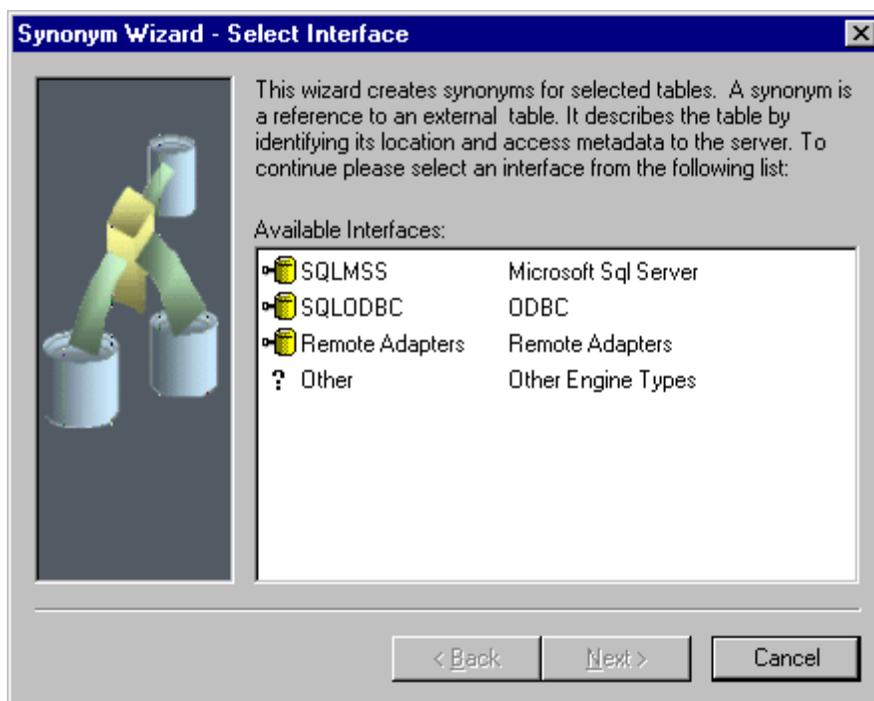
Catalog Administrator refreshes the list.

Displaying Available Sources

To create a new synonym use one of the following options:

- Highlight the Synonyms object and click the *Insert*  button.
- or
- Right-click the *Synonyms* object and select *New Synonym*.

The Synonym Wizard - Select Interface window displays a list of interfaces that are available on your server:



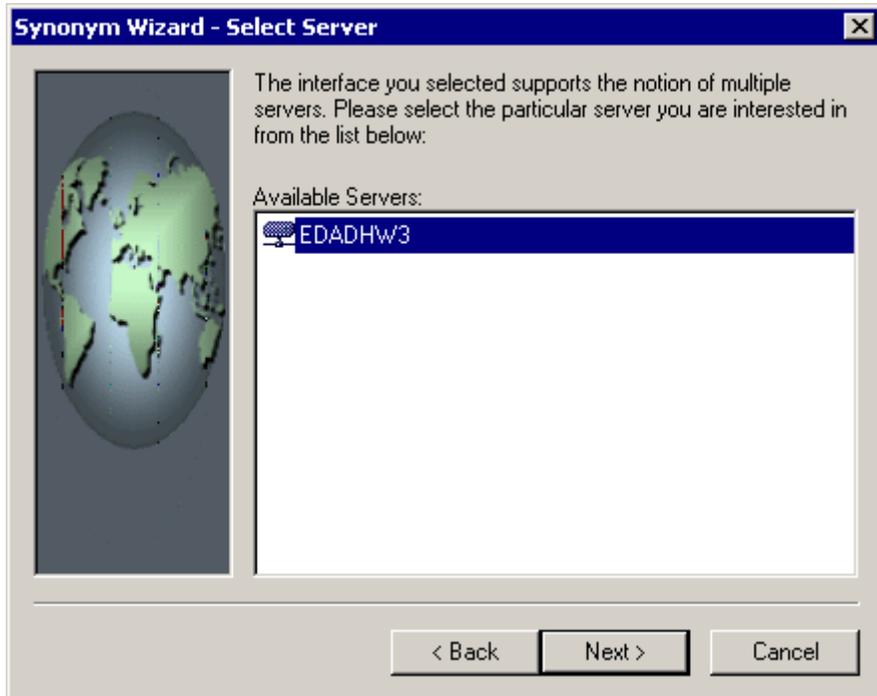
Note

- The DBMS Interface of Remote Adapters refers to data sources located on a subserver.
- The server configuration (indicated by the server profile) determines which interfaces are available. That is, an interface is available as long as there is at least one SQL Engine SET command for it in the server profile.
- The DBMS interface of Other allows you to create synonyms for XML.

Selecting a Synonym Source

1. Select an interface, and click *Next*.

If the interface you selected supports multiple servers, the Synonym Wizard - Select Server window displays:



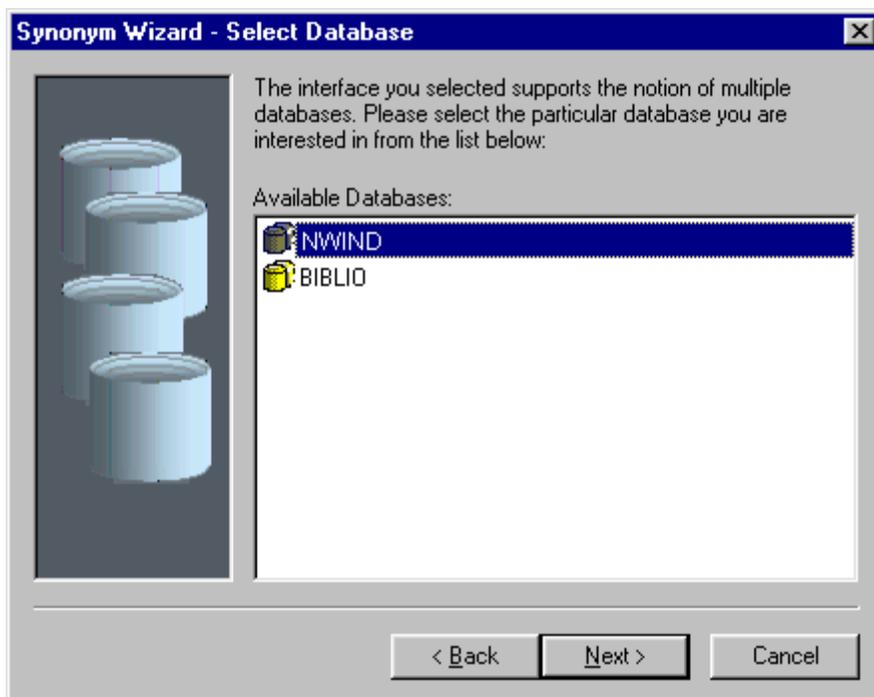
2. Select a server, and click *Next*.

Selecting a Database

Once you have selected the DBMS Interface and server, some RDBMSs—including Sybase, SQL Server, and others—allow you to choose a database from which to display a list of tables.

Procedure How to Select a Database

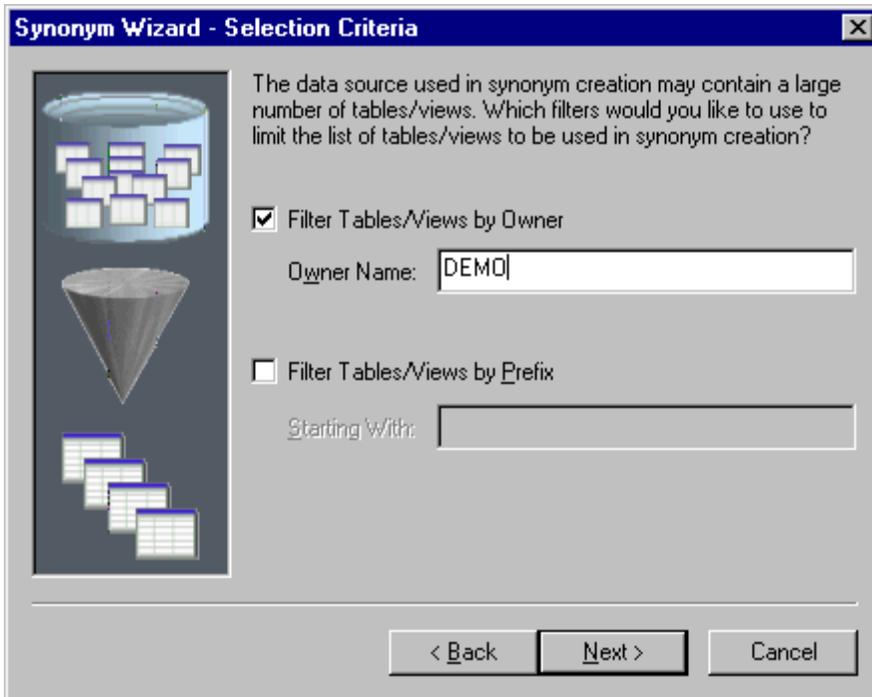
1. Select the appropriate database.



2. Click *Next*.

Selecting Table/Views

Once you have selected a DBMS Interface, server, and database, the Synonym Wizard - Selection Criteria window displays:



Procedure How to List Tables

1. Enter an owner name or table name prefix, to limit the list of tables that are retrieved.

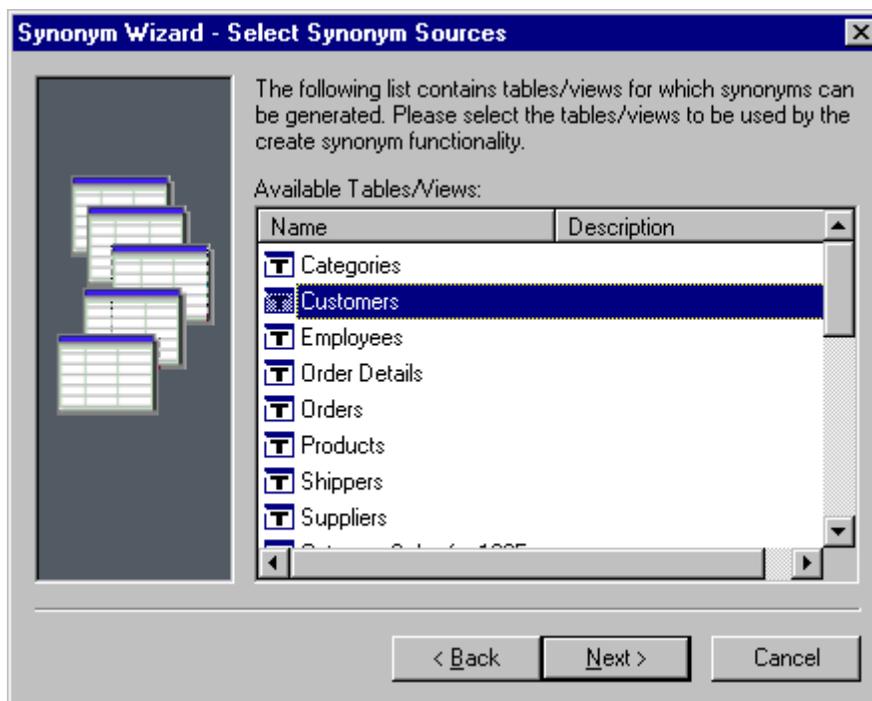


Note

If you do not include selection criteria, the entire list of tables displays.

2. Click *Next* to continue.

The Synonym Wizard - Select Synonym Sources window displays:



Procedure How to Select Tables/Views for a Synonym Creation

1. Select the Table/View name.
or
Double-click the table name.

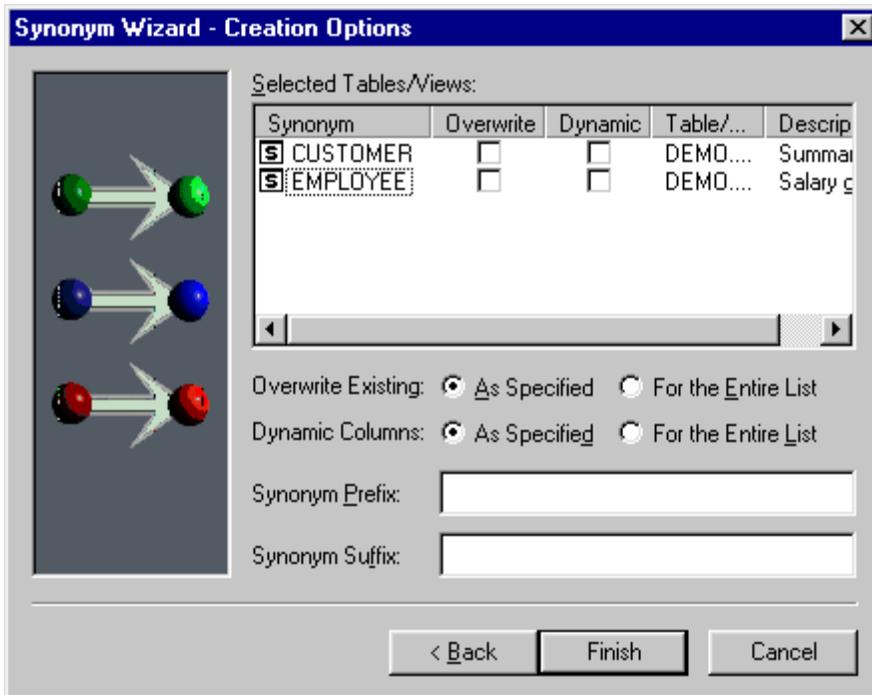
2. Click *Next* to continue.

Procedure How to Select More Than One Table for Synonym Creation

1. Click the table for which you want to create the synonym.
2. Use the Shift key to select contiguous tables or the Ctrl key to select non-contiguous tables. You can also use the Ctrl key to deselect a table.
3. Click *Next* to continue.

Assigning Synonym Names

The Synonym Wizard - Creation Options window displays the list of tables you have chosen for synonym creation:



By default, the table name is used as the synonym name. If a synonym already exists for the specified name, it will not automatically be replaced by the new synonym.

The Synonym Wizard-Creation Options dialog box has the following options:

Overwrite Existing: As Specified

Overwrites an individual existing synonym.

Overwrite Existing: For the Entire List

Overwrites all existing synonyms.

Dynamic Columns: As Specified

Creates a synonym without any columns.

Dynamic Columns: For the Entire List

Applies dynamic columns to all synonyms. This option is especially useful in a test environment that has a constantly changing data structure.

Procedure How to Rename a Synonym

1. Click once on the synonym name to highlight it, pause, then click again. This activates the cursor and allows you to change the text.
2. Type the new name for the synonym.

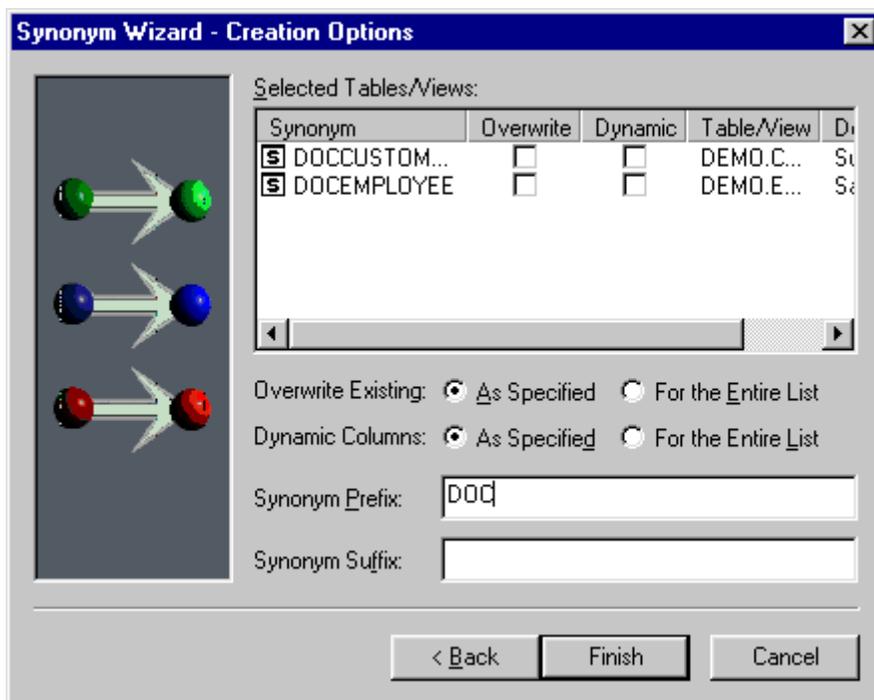
**Note**

The synonym name can be up to 64 characters.

3. Click *OK* to continue.

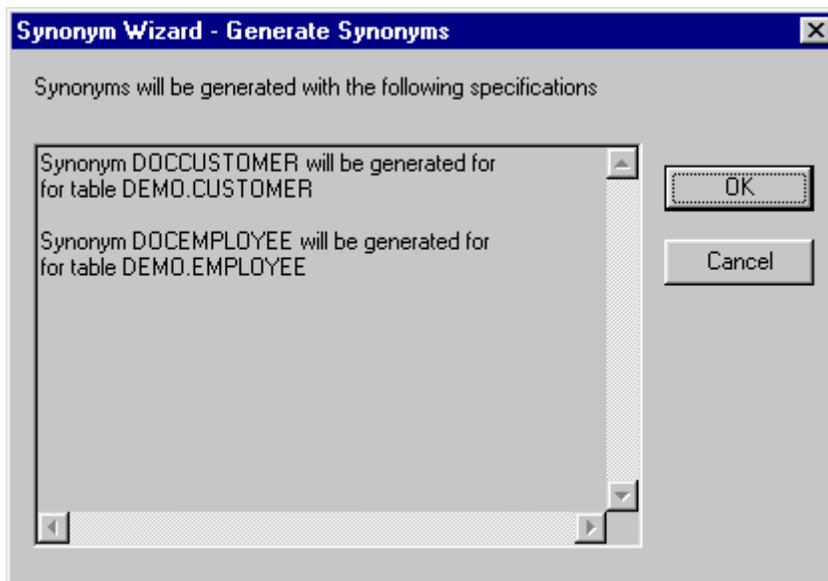
Procedure How to Provide a Unique Prefix or Suffix to All Synonyms

1. Type a prefix in the *Synonym Prefix* entry box, or a suffix in the *Synonym Suffix* entry box.
2. The synonym name changes to include the suffix or prefix you entered.



3. When all selections have been made, click *Finish*.

The Synonym Wizard - Generate Synonyms window displays.



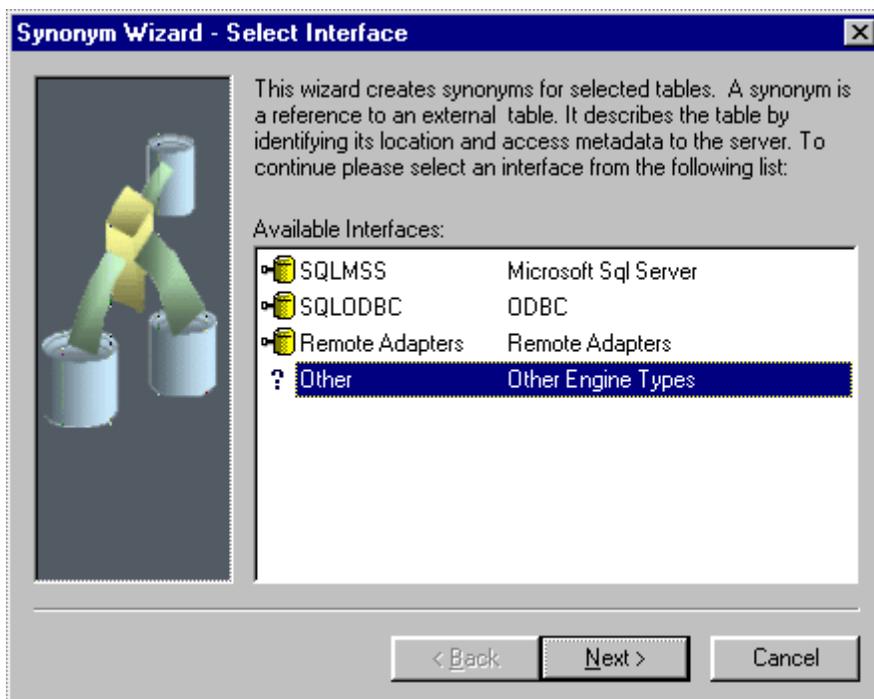
4. Click *OK* to generate synonyms. The Data Management Console displays, with the synonyms that you created added to the list.

Procedure How to Create Synonyms for XML

1. To create a new synonym, do one of the following:

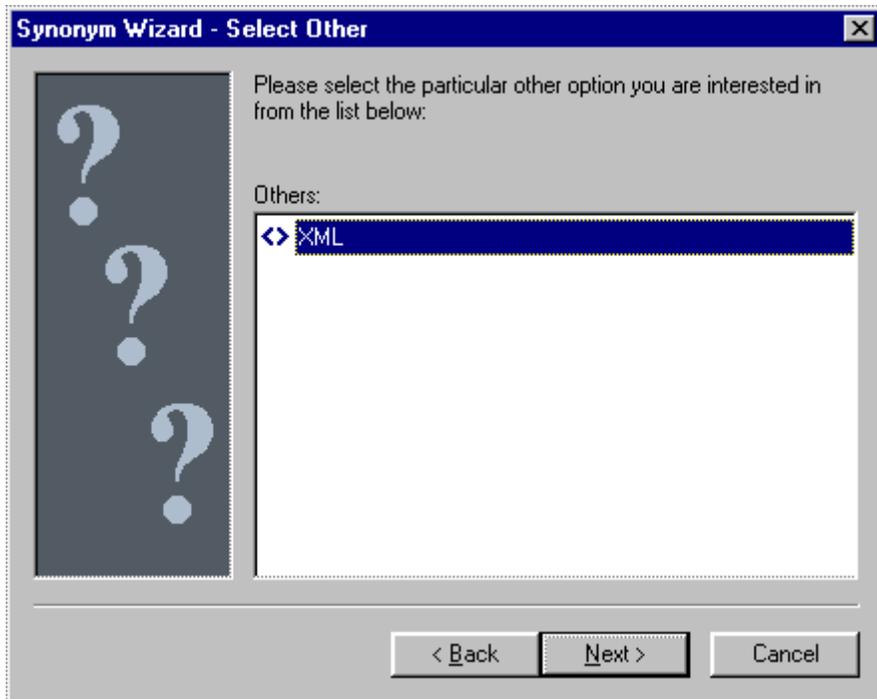
- Highlight the Synonyms object and click the *Insert*  button.
- or
- Right-click *Synonyms* object and select *New Synonym*.

The Synonym Wizard – Select Interface window displays a list of interfaces that are available on your server.



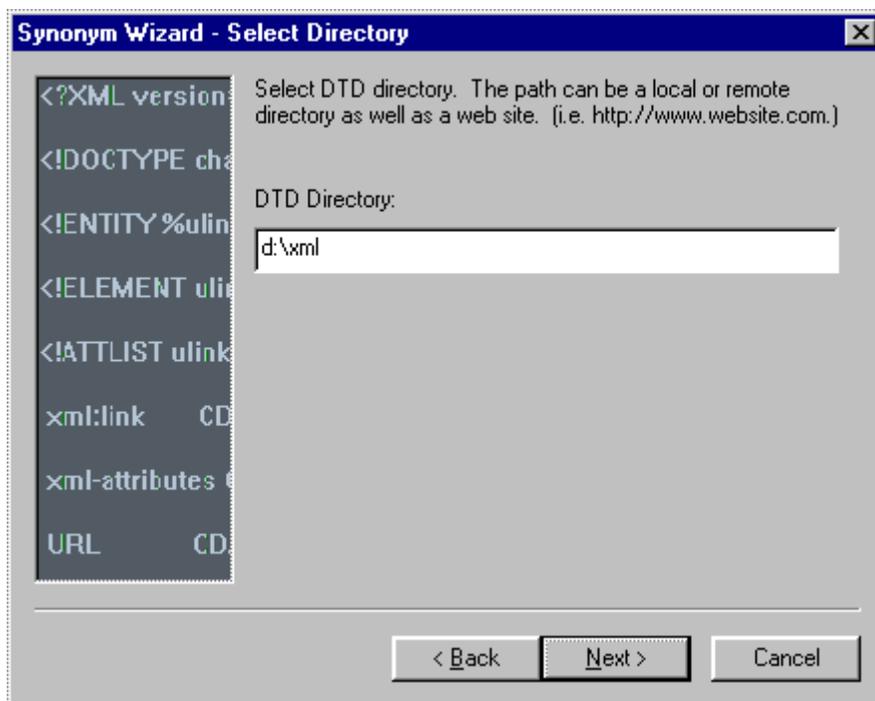
2. Select *Other* and click *Next*.

The Synonym Wizard - Select Other window displays.



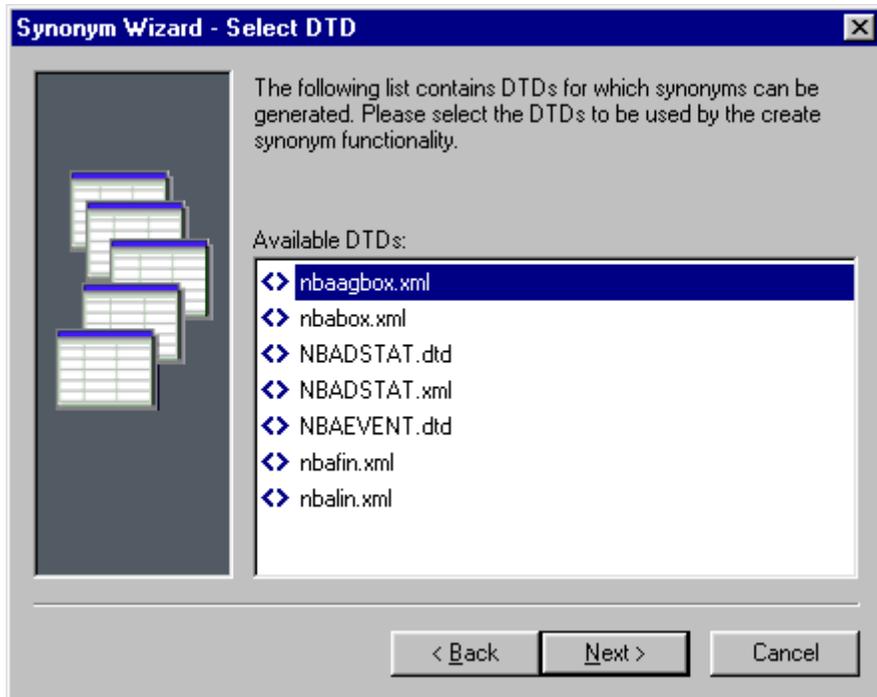
3. Select *XML* and click *Next*.

The Synonym Wizard - Select Directory window displays.



4. Enter the fully qualified path where the XML files can be found on the server and then click *Next*.

The Synonym Wizard - Select DTD window displays.



5. Select the DTDs you want to create synonyms for.
6. Click *Next* to continue.



Note

The remaining synonym creation process for XML is identical to *Assigning Synonym Names* on page 3-8.

Deleting Synonyms

Master Files and Access Files are removed from the server when you delete a synonym.

1. In the Data Management Console, click *Catalog Administrator*.
2. In the details pane, highlight the Synonym you want to delete.

3. Click the *Delete*  button.

or

Right-click a synonym and select *Delete*. You will be asked to confirm your deletion.

4. Click *Yes* to delete or *No* to cancel.

Viewing Properties of a Synonym

Viewing the properties of a synonym allows you to display its attributes, including field names, data types, and length.

Procedure How to View the Properties of a Synonym

1. Highlight a synonym in the details pane.

2. Click the *Properties*  button.

or

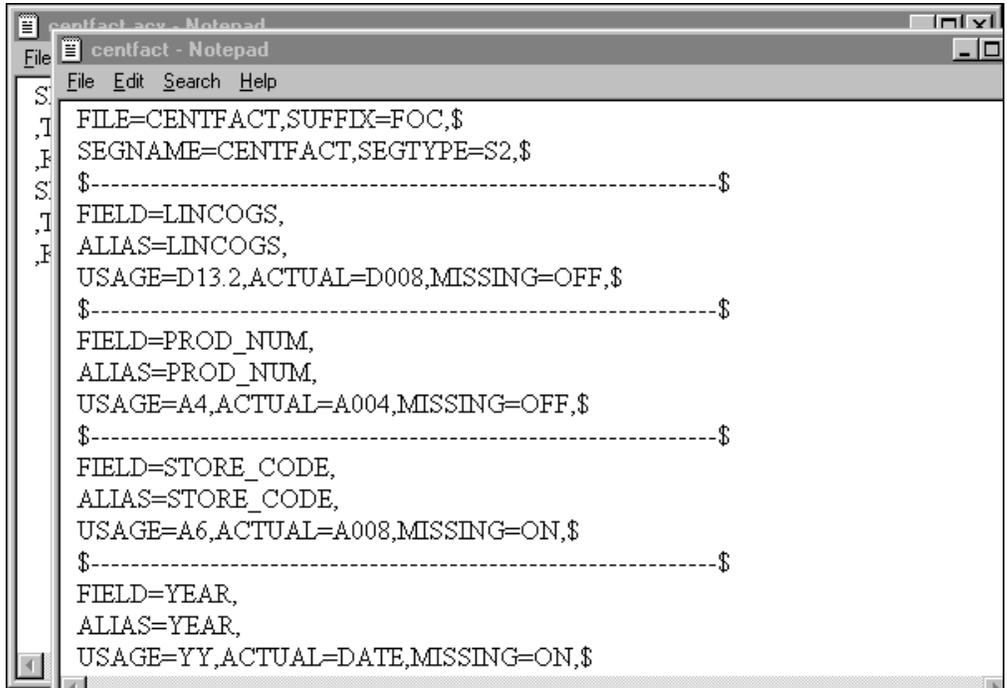
Right-click a synonym in the details pane and select *Properties*.

The Properties window displays:

Column	Type	Precision	Length	Scale	Radix	Nullable	Usage
YEAR	DATE	10	6	.	.	1	YY
STORE_CODE	CHAR	6	6	.	.	1	A6
QUANTITY	INTEGER	10	4	0	10	1	I8C
PROD_NUM	CHAR	4	4	.	.	0	A4
MONTH	DATE	10	6	.	.	1	M
LINEPRICE	DOUBLE	15	8	2	10	1	D12.2MC
LINCOGS	DOUBLE	15	8	2	10	0	D13.2

3. Click the *View* button to display the Master and Access Files.

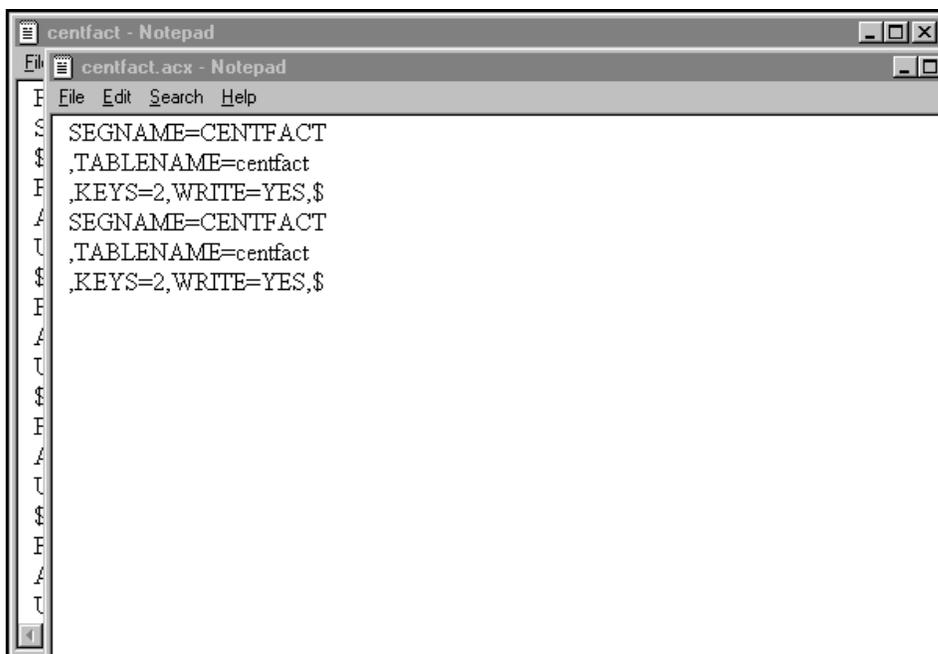
The Master File displays first:



The screenshot shows a Notepad window titled 'centfact - Notepad'. The window contains the following text, which represents the Master File properties for a synonym:

```
S FILE=CENFACT,SUFFIX=FOC,$
.T SEGNAME=CENFACT,SEGTYPE=S2,$
.F $-----$
S FIELD=LINCOGS,
.T ALIAS=LINCOGS,
.F USAGE=D13.2,ACTUAL=D008,MISSING=OFF,$
$-----$
FIELD=PROD_NUM,
.T ALIAS=PROD_NUM,
.F USAGE=A4,ACTUAL=A004,MISSING=OFF,$
$-----$
FIELD=STORE_CODE,
.T ALIAS=STORE_CODE,
.F USAGE=A6,ACTUAL=A008,MISSING=ON,$
$-----$
FIELD=YEAR,
.T ALIAS=YEAR,
.F USAGE=YY,ACTUAL=DATE,MISSING=ON,$
```

Followed by the Access File:



```
centfact - Notepad
centfact.acx - Notepad
File Edit Search Help
SEGNAME=CENFACT
, TABLENAME=centfact
, KEYS=2, WRITE=YES,$
SEGNAME=CENFACT
, TABLENAME=centfact
, KEYS=2, WRITE=YES,$
```

Procedure Viewing the Synonym

A synonym is comprised of a Master File and an Access File.

To view these files:

1. In the Data Management Console main screen, highlight the Synonyms object.
2. In the details pane, highlight the synonym object you want to view.
3. Right-click the synonym object.
4. Select the *View* option.

Viewing Properties of a Synonym

CHAPTER 4

Stored Procedures

Topic:

- Cataloging Stored Procedures

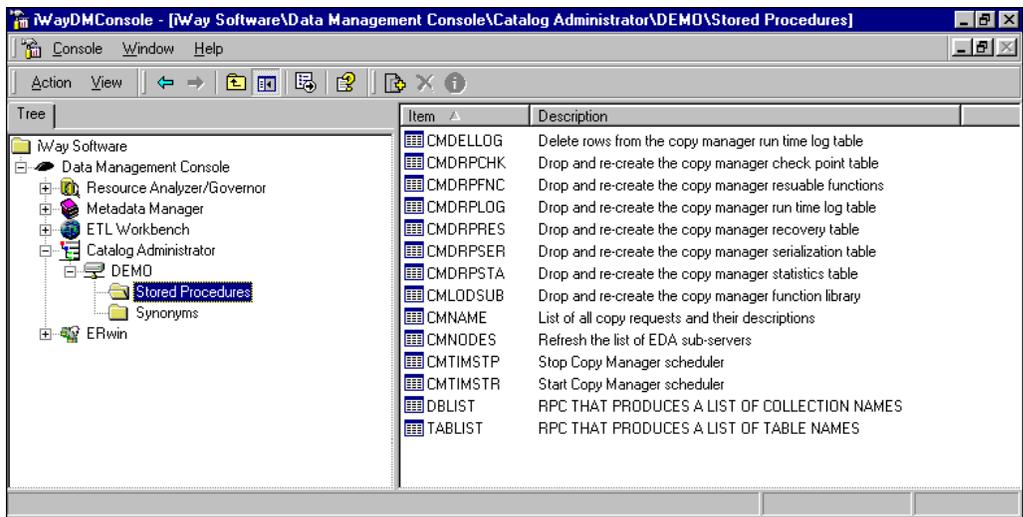
The Catalog Administrator allows you to add, update, or delete stored procedure metadata in the Dynamic Catalog.

Stored procedure metadata includes information about the stored procedure, the parameters passed to a stored procedure when it is called, and the answer sets returned by the stored procedure.

Cataloging Stored Procedures

Cataloging a stored procedure and its parameter information makes that information available to clients accessing the server. Catalog Administrator is also enabled to the Metadata Manager repository. If you have installed Metadata Manager, the stored procedures you catalog will be automatically added to the Meta Directory repository. For more information on Metadata Manager, refer to the *Metadata Manager Administrator's Guide*.

Click on the *Stored Procedures* object to display the stored procedures that are cataloged automatically upon installation, along with any you have previously cataloged.

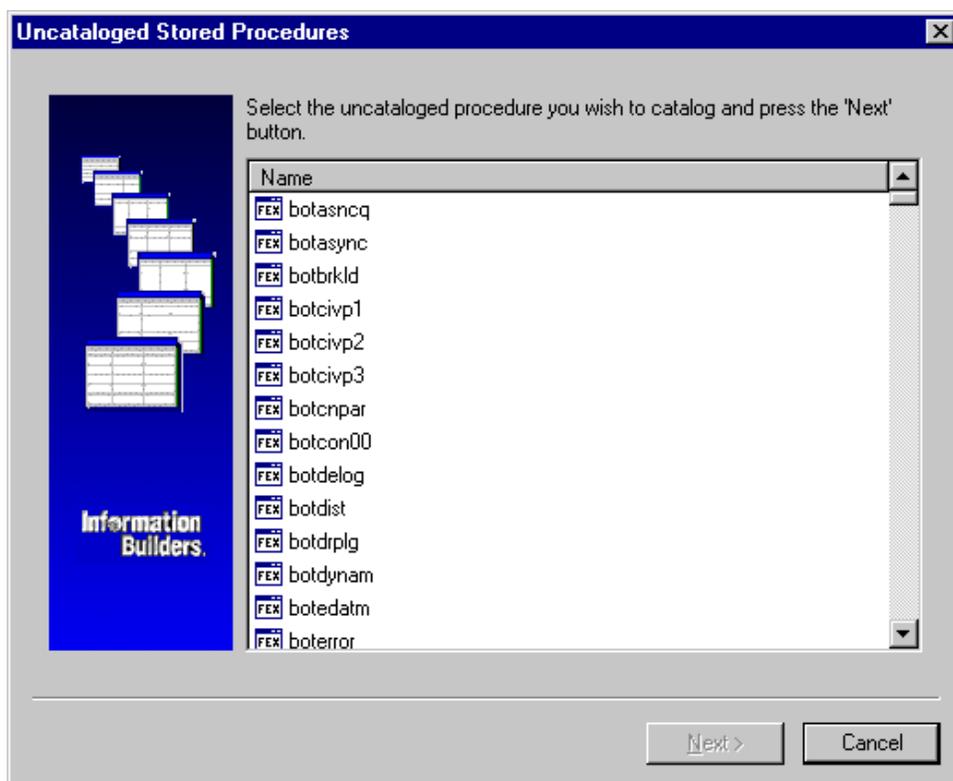


Procedure How to Catalog a Stored Procedure

1. Click the *Stored Procedure* object.
2. Do one of the following:

- Click the *Insert*  button.
or
- Right-click the *Stored Procedures* object and select *New Stored Procedures* from the context menu.

The Uncataloged Stored Procedures screen displays:



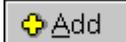
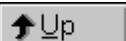
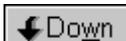
3. Select a stored procedure to catalog from the list displayed, and click *Next*.

The Uncataloged Stored Procedure Editor screen displays:

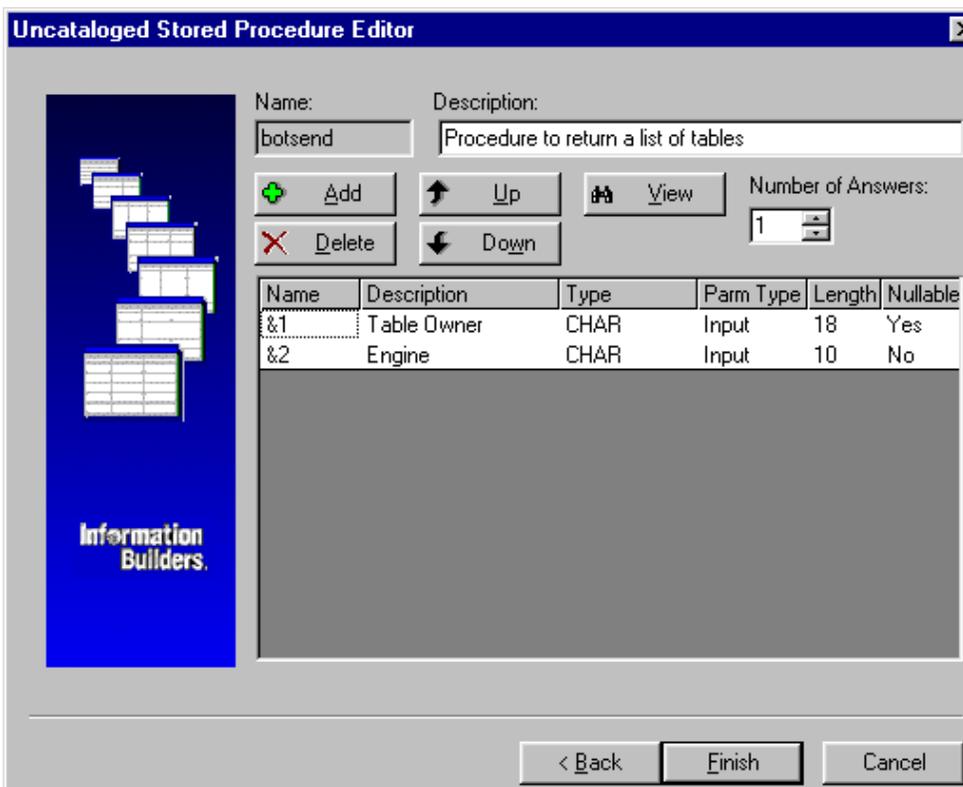
Name	Description	Type	Parm Type	Length	Nullable
------	-------------	------	-----------	--------	----------

The Uncataloged Stored Procedure Editor screen allows you to enter a description for the stored procedure and information about the parameters.

This table describes the buttons associated with this screen:

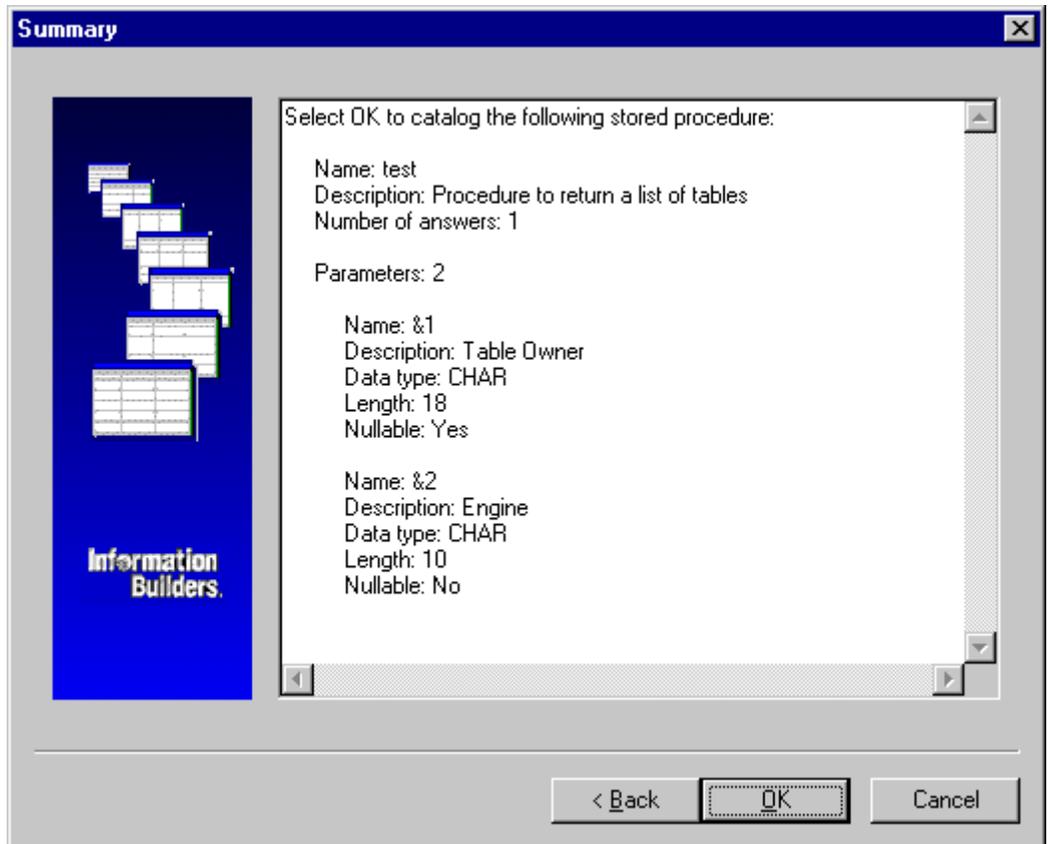
 View	Displays the stored procedure.
 Add	Adds an additional parameter.
 Delete	Deletes the selected parameter.
 Up	Moves the selected parameter up in the parameter window.
 Down	Moves the selected parameter down in the parameter window.

4. Enter a description of the stored procedure and information about the parameters. Use the mouse to navigate between input fields.



5. When all information has been entered, click *Finish*.

The Summary screen displays:



6. To catalog the stored procedure, click *OK*.

Procedure How to Add Parameters



Note

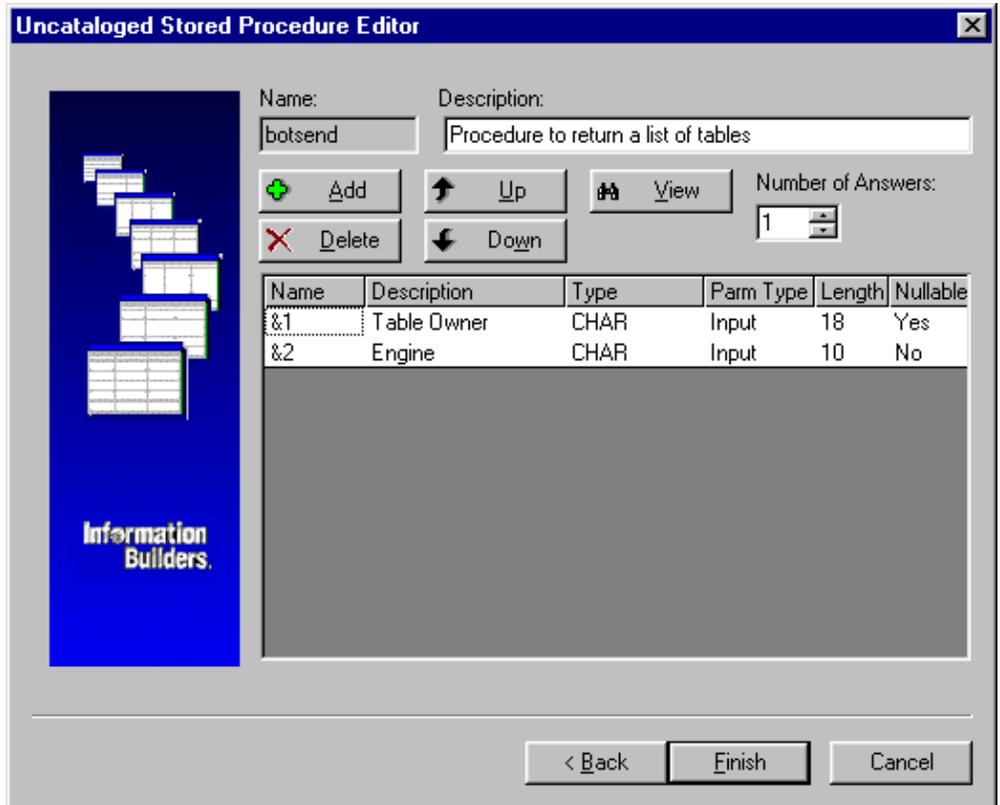
For this procedure, you must use the mouse to navigate from input field to input field.

1. Open the Uncataloged Stored Procedure Editor screen as described in *How to Catalog a Stored Procedure* on page 4-3.

Name	Description	Type	Parm Type	Length	Nullable

2. Click the *Add* button.
3. Double-click *Name* to open the dialog box for an entry. Enter the parameter name.
4. Double-click *Description* to open the dialog box for entry. Enter the parameter description.
5. Double-click *Type* to display the list of data types. Select *CHAR*, *NUMERIC*, *DECIMAL*, *INTEGER*, *SMALLINT*, *FLOAT*, *DATE*, or *VARCHAR*.

6. Double-click *Parm Type* to display the list of parameter types. Select *Input*, *Output*, or *Both*.
7. Double-click *Length* to open the dialog box for entry. Enter the appropriate length.
8. Double-click *Nullable* to display the list options. Select *Yes*, *No*, or *Unknown*.



9. When you have added all parameters, click *Finish*.

Procedure How to Modify a Cataloged Stored Procedure or Its Parameters

1. Double-click a stored procedure.
2. Change the description, the number of answer sets, or parameter values as necessary.
3. Click *OK* to continue.

Procedure **How to Delete Parameters**

1. Double-click a stored procedure.
2. Click a parameter name.
3. Click the *Delete* button.

Procedure **How to Delete a Stored Procedure**

1. Click the *Stored Procedures* object in the Data Management Console window.
2. Click a specific stored procedure in the details pane.
3. Click the *Delete* button. You will be asked to confirm your deletion.
4. Click *Yes* to delete.

Procedure **How to View a Stored Procedure**

The stored procedure can either be a FOCEXEC or 3GL procedure.

1. Click the *Stored Procedures* object in the Data Management Console window.
2. Right-click to display the context menu.
3. Select the *View* option.

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