SeeBeyond ICAN Suite

ADABAS eWay Intelligent Adapter User's Guide

Release 5.0.1



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Introducing the ADABAS eWay

This guide explains how to use and operate the SeeBeyond Technology Corporation's (SeeBeyond) ADABAS eWay Intelligent Adapter (ADABAS eWay).

This chapter provides a brief overview of operations, components, general features, and system requirements of the ADABAS eWay.

Chapter Topics

- "Overview" on page 6
- "Supported Operating Systems" on page 7
- "System Requirements" on page 7
- "External System Requirements" on page 8

1.1 **Overview**

The ADABAS eWay enables eGate Integrator to exchange data with an external ADABAS mainframe file system.

ADABAS System

The ADABAS system is a database product of Software AG. This database is designed around a two-process structure. The ADABAS nucleus executes in a separate partition of the mainframe operating system from the application or the ADABAS utility.

The ADABAS nucleus manages all database activities and serves all user processes centrally. The number of users who can be served in parallel is unlimited and typically can be many thousands.

To be able to support thousands of users in parallel and deliver fast response times, ADABAS has its own internal multi-threading architecture. This architecture allows the ADABAS nucleus to support an unlimited number of read-and-write tasks simultaneously. The ADABAS system also provides the following features:

- Supports Entry-sequenced Data Set (ESDS) and Key-sequenced Data Set (KSDS) files
- Data and index compression
- Asynchronous buffer flushing
- Buffer-search algorithms based on hashing algorithms

The ADABAS eWay allows you to utilize and extend all of these features. For more information on ADABAS, see Software AG's Web site:

ADABAS eWay

This eWay is similar to other database eWays, such as IAM, VSAM, and IDMS. The eWay uses its own properties settings and eGate components to enable ADABAS data integration.

This eWay enables eGate to communicate with ADABAS files on a mainframe host system via TCP/IP. The eWay utilizes a CrossAccess Corp. software component that allows you to view and access ADABAS in the same way as a standard relational database system.

For details on operating and using eGate and its user interface, the Enterprise Designer, see the *eGate Integrator User's Guide*.

The ADABAS eWay's properties settings provide the necessary parameters for the operation of the ADABAS eWay. See **Chapter 3** for details on how to set the ADABAS eWay properties.

1.2 Supported Operating Systems

The ADABAS eWay is available for the following operating systems:

- Windows XP, Windows 2000, and Windows Server 2003
- HP-UX 11.0 and 11i (PA-RISC)
- IBM AIX 5.1L and 5.2
- Red Hat Linux 8 (Intel) and Linux Advanced Server 2.1 (Intel)
- Sun Solaris 8 and 9

1.3 System Requirements

To use the ADABAS eWay, you need:

- eGate Logical Host.
- TCP/IP network connection.

Logical Host Requirements

The ADABAS eWay Installation program installs the CrossAccess JDBC driver, version 3.0.

The eWay must have its properties set and be administered using the Enterprise Designer. For complete information on the Enterprise Designer system requirements, see the *SeeBeyond ICAN Suite Installation Guide*.

elnsight Interface

To enable the eWay's eInsight interface (see **Chapter 5** for details), you must also install and set properties for SeeBeyond's eInsight Business Process Manager. See the *eInsight Business Process Manager User's Guide* for details.

1.4 External System Requirements

This section lists the eWay's external system requirements.

ADABAS Requirements

The eWay supports ADABAS version 5.3.

Additional Windows Requirements

To enable eGate Enterprise Designer's editors to communicate with the ADABAS file system, the following CrossAccess item must be installed on any host machines running the editors:

- CrossAccess version 3.0, including:
 - JDBC driver (installed with the eWay)

You also need the Predict application.

Note: Predict is a standard ADABAS software tool.

For more information, including installation procedure and serial numbers, see **Chapter 2**.

Additional UNIX Requirements

If you are installing the ADABAS eWay on a UNIX system, you need:

crossaccess jdbc driver, version 3.0 (installed with the eway)

z/OS External Requirements

- CrossAccess eXadas Data Integrator, version 3.0, installed via a 3480 cartridge tape
- The serial number for the installation, shipped with the tape
- *Note:* The eXadas Data Integrator is shipped with the eWay, but you must install it separately.

All of these eXadas software products are also available from the CrossAccess Corp. For more information, you can visit the company's Web site at:

www.crossaccess.com

Installing the ADABAS eWay

This chapter explains how to install the ADABAS eWay.

Chapter Topics

- "Complete Installation: Overview" on page 10
- "eWay Installation Procedures" on page 11
- "After Installation" on page 12
- *Note:* See the SeeBeyond ICAN Suite Installation Guide for complete eGate installation instructions.

2.1 Complete Installation: Overview

This section provides a brief overview of the eWay's installation components and the order of their installation.

Note: The CrossAccess eXadas Data Integrator is shipped with the eWay, but you must install it separately.

You must install the ADABAS eWay and its components in the following order:

- 1 eXadas Data Integrator
- 2 ADABAS eWay

In addition, the eWay requires the Predict software tool. See the appropriate Software AG documentation for complete instructions on Predict. Also, see the CrossAccess documentation for instructions on how to use Predict with CrossAccess software.

Note: Once the installation operation is complete, you may want to pass a small amount of data to ensure you have a working connection.

Installing eXadas Data Integrator

For complete details on how to install eXadas Data Integrator on the mainframe, see the CrossAccess *eXadas Data Integrator Getting Started* manual, the chapter that details mainframe installation. All eXadas software products, as well as additional information on each product, are available from the CrossAccess Corp.

For more information on CrossAccess, you can visit their Web site.

Important: When you install eXadas Data Integrator, be sure to set properties for it for ADABAS. See the appropriate CrossAccess documentation for details.

2.2 eWay Installation Procedures

During the ICAN Suite installation process, the Enterprise Manager, a Web-based application, is used to select and upload eWay and add-on files (.sar files) from the ICAN installation CD-ROM to the Repository.

When the Repository is running on a UNIX operating system, eWays are loaded using the Enterprise Manager on a Windows computer connected to the Repository server, using Internet Explorer.

Before Installing the eWay

Open and review the **Readme.txt** file (located in the root directory of the ICAN installation's Repository CD-ROM) for the latest information, before installing the eWay.

Installing the ADABAS eWay on an eGate-supported System

The ADABAS eWay can be installed during the installation of eGate. The eGate installation process includes the following operations:

- Installing the eGate Repository
- Uploading products to the Repository
- Downloading the components (including the eGate Enterprise Designer and the Logical Host)
- Viewing the product information home pages

Follow the instructions for installing the ICAN Suite found in the *SeeBeyond ICAN Suite Installation Guide*, and include the following steps:

- 1 After the eGate or eInsight core products are uploaded to the Repository using the Enterprise Manager, select and upload the **FileeWay.sar**. The File eWay is used by the eWay's Project sample. You must upload the File eWay (**FileeWay.sar**.) before uploading the ADABAS eWay (**ADABASeWay.sar**).
- 2 After the File eWay is uploaded, upload **ADABASeWay.sar** to install the ADABAS eWay.
- 3 Next, upload the **ADABASeWayDocs.sar**. This file contains the eWay user's guide, **Javadoc**, and sample Project file.

To obtain these files, follow the instructions provided by the user interface.

4 If needed, continue installing eGate as instructed in the *SeeBeyond ICAN Suite Installation Guide*.

2.3 After Installation

Once the eWay is installed and configured, it must then be incorporated into a Project before it can perform its intended functions. See the *eGate Integrator User's Guide* for more information on incorporating the eWay into an eGate Project.

Setting ADABAS eWay Properties

This chapter explains how to set the properties for the ADABAS eWay.

Chapter Topics

- "ADABAS eWay Properties Sheet" on page 13
- "Setting eWay Properties on the Connectivity Map" on page 15
- "Setting Properties on the Project Environment" on page 20

3.1 ADABAS eWay Properties Sheet

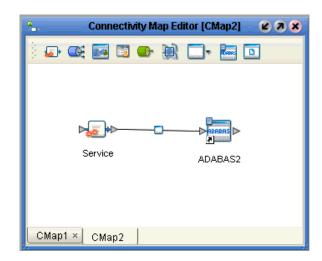
When you install the ADABAS eWay, a default properties template for the eWay is also installed. These default settings apply to all ADABAS eWays you use within your current Project or Business Process.

You can set properties for each individual eWay using the Enterprise Designer's eWay **Properties** sheet. This section describes general procedures on how to change the default properties for the eWay. For details on these steps, see the *eGate Integrator User's Guide*.

To set properties for the ADABAS eWay on the Connectivity Map

- 1 From the eGate Enterprise Designer's **Project Explorer** create at least one Connectivity Map.
- 2 Create the desired external systems for your one or more Connectivity Maps.
- 3 Select the external application whose default eWay properties you want to change by clicking the eWay icon. This icon is located on the link between an External Application icon and a Service icon on the Connectivity Map canvas. See Figure 1 on page 14.

Figure 1 eWay Icon



4 Select whether you want the Inbound or Connection Point (CP) eWay properties on the pop-up dialog box.

The eWay **Properties** sheet appears. **Figure 2 on page 16** shows the CP (outbound) eWay's default properties available on the **Project Explorer** and Connectivity Map. You can use this window to modify the current eWay's properties settings.

Figure 3 on page 19 shows the Inbound eWay's default properties.

5 Click **OK** then **Save All** to save your changes.

To set properties for the ADABAS eWay on the Project Environment

- 1 From the Enterprise Designer, create your external systems.
- 2 Click the **Environment Explorer** tab (at the bottom of the left pane).
- ³ Create an environment for your project, then create external systems on the Environment canvas to correspond to the systems you created using the **Project Explorer**.
- 4 Enter a name for the new external system and select whether you want the Inbound or Connection Point (CP) eWay properties on the dialog box.
- 5 Select the external system whose default eWay properties you want to change by right-clicking the desired system's icon in the **Environment Explorer**.

The eWay **Properties** sheet appears. **Figure 4 on page 21** shows the CP (outbound) eWay's default properties available on the **Environment Explorer**. You can use this dialog box to modify the eWay properties associated with the current external system.

Figure 5 on page 24 shows the Inbound eWay's default properties.

6 Click **OK** then **Save All** to save your changes.

To use the eWay Properties sheet

- The default properties are automatically provided. You can change the defaults, as desired.
- Clicking the **Configuration** (Connectivity Map) or **Environment Configuration** folder in the left pane displays the properties group subfolder in the right pane. Click any subfolder to display the eWay's editable properties.
- Many of the entries allow you to enter text. Click the desired text box, then click the ellipsis (...) that appears, to open a dialog box for this purpose.
- *Note:* Even if you do not change the eWay's properties, you must open the **Properties** sheet for the eWay and click **OK** to activate the eWay.

The rest of this chapter explains all of the eWay's properties in detail, under the following sections:

- "Setting eWay Properties on the Connectivity Map" on page 15
- "Setting Properties on the Project Environment" on page 20

3.2 Setting eWay Properties on the Connectivity Map

This section explains in detail the eWay's editable properties accessible on the Connectivity Map via the eGate Enterprise Designer's **Project Explorer**. You can set these properties using the eWay **Properties** sheet.

3.2.1. Setting the Properties in the CP (Outbound) eWay

These settings define the properties used to interact with the external database. See **Figure 2 on page 16**.

The eWay's properties settings define the properties used to interact with the external database, under the **JDBC Connector settings** folder. These settings are:

- "ClassName" on page 16
- "Description" on page 17
- "InitialPoolSize" on page 17
- "LoginTimeOut" on page 17
- "MaxIdleTime" on page 17
- "MaxPoolSize" on page 17
- "MaxStatements" on page 18

- "MinPoolSize" on page 18
- "NetworkProtocol" on page 18
- "PropertyCycle" on page 18
- "RoleName" on page 18

Figure 2 eWay Properties Sheet: CP (Outbound) Settings on the Connectivity Map

🖏 Properties				
Configuration	(¥ [2 [8 5=		
L DBC Connector settings		ClassName	com.cac.jdbc.ConnectionPoolDa	
		Description	ADABAS Connection Pool Datas	
		InitialPoolSize	2	
		LoginTimeOut	0	
		MaxIdleTime	0	
	;	MaxPoolSize	10	
		MaxStatements	1000	
		MinPoolSize	2	
		NetworkProtocol		
	-	PropertyCycle	0	
		RoleName		
	-			
Description (JDBCConnectorSetti	-			
JDBC Connector settings				
	-			
	-			
	1			
Comments (JDBCConnectorSetti				
· · · · · · · · · · · · · · · · · · ·				
	1	Properties		
ОК			Cancel	

ClassName

Description

Specifies the Java class in the JDBC driver, which is used to implement the **ConnectionPoolDataSource** interface.

Required Values

A valid class name.

The default is ADABAS.jdbc.pool.ADABASConnectionPoolDataSource.

Description

Description

Enter a description for the current database.

Required Values

A valid string. The default is ADABAS Connection Pool Datasource.

InitialPoolSize

Description

Enter a number for the physical connections the pool must contain when it is created.

Required Values

A valid numeric value.

LoginTimeOut

Description

Specifies the number of seconds the driver waits before attempting to log on to the database before timing out.

Required Values

A valid numeric value.

MaxIdleTime

Description

Specifies the maximum number of seconds that a physical connection can remain unused before it is closed. A 0 (zero) indicates there is no limit.

Required Values

A valid numeric value.

MaxPoolSize

Description

Specifies the maximum number of physical connections the pool must keep available at all times. A 0 (zero) indicates there is no maximum.

Required Values

A valid numeric value.

MaxStatements

Description

Specifies the maximum total number of statements the pool must keep open. A 0 (zero) indicates the caching of statements is disabled.

Required Values

A valid numeric value.

MinPoolSize

Description

Specifies the minimum number of physical connections the pool must keep available at all times. A 0 (zero) indicates there are no physical connections in the pool, and the new connections are created as needed.

Required Values

A valid numeric value.

NetworkProtocol

Description

Specifies the network protocol used to communicate with the server.

Required Values

Any valid string.

PropertyCycle

Description

Specifies the interval, in seconds, which the pool waits before enforcing the current policy defined by the values of the other connection pool properties specified in the eWay's properties.

Required Values

A valid numeric value.

RoleName

Description

Enter an initial SQL role name.

Required Values

Any valid string.

3.2.2. Setting the Properties in the Inbound eWay

This section explains how to set properties for the inbound ADABAS eWay. See Figure 3.

These settings under the **Configuration** folder are:

- "Pollmilliseconds" on page 19
- "PreparedStatement" on page 20

Figure 3 eWay Properties Sheet: Inbound Settings on the Connectivity Map

	Properties 🛛 🗙
Configuration	
🖵 🛅 🛛 Parameter Settings	PollMilliseconds 5000
	PreparedStatement
Description (parameter-settings)	
	r
Comments (parameter-settings)	
	Properties
ОК	Cancel

Pollmilliseconds

Description

Polling interval in milliseconds.

Required Values

A valid numeric value. The default is **5000**.

PreparedStatement

Description

The Prepared Statement used for polling against the database.

Required Values

The Prepared Statement must be the same Prepared Statement you created using the Database OTD Wizard. Only a SELECT Statement is allowed. Additionally, no place holders can be specified. Do not use "?" in the Prepared Query.

3.3 Setting Properties on the Project Environment

This section explains in detail the eWay's editable properties accessible via the eGate Enterprise Designer's **Environment Explorer**.

3.3.1. Setting the Properties in the CP (Outbound) eWay

You can set these properties using the eWay **Properties** sheet. See Figure 4 on page 21.

The eWay's properties, under the **JDBC Connector settings** folder, in the **Environment Explorer** are:

- "DatabaseName" on page 21
- "DataSourceName" on page 21
- "Delimiter" on page 22
- "Description" on page 22
- "Password" on page 22
- "PortNumber" on page 23
- "ServerName" on page 23
- "User" on page 23

Figure 4 eWay Properties Sheet: CP (Outbound) Settings on the Project Environment

Roperties			X
Environment Configuration		¥ [2 [* [*= [
L DBC Connector settings		DatabaseName	
		DataSourceName	
		Delimiter	#
		Description	ADABAS Connection Pool Data
		DriverProperties	
	:	Password	
		PortNumber	
		ServerName	
	-	User	
	* * *		
	1		
Description (JDBCConnectorSetti	1		
JDBC Connector settings			
	1		
	1		
	ł		
	-		
Comments (JDBCConnectorSetti			
· · · · · · · · · · · · · · · · · · ·			
		Properties	
ОК			Cancel

DatabaseName

Description

Specifies the name of the database instance.

Required Values

Any valid string.

DataSourceName

Description

Provide the name of the **ConnectionPoolDataSource** object that the **DataSource** object delegates behind the scenes when connection pooling or distributed transaction management is being done.

Required Values

Optional. In most cases, leave this box empty.

Delimiter

Description

Specifies the delimiter character to be used in the **DriverProperties** prompt.

Required Value

The default is #.

Description

Description

Enter a description for the current database.

Required Values

A valid string. The default is **ADABAS Connection Pool Datasource**.

DriverProperties

Description

Allows you to enter the properties of the driver you are using; this property is optional.

You can also use this property to change some driver parameters "on the fly" such as turning on a driver trace (a description box that identifies a driver).

Required Values

Any valid delimiter and/or method as follows:

• **Delimiter**: Valid delimiters are:

```
"<method-name-1>#<param-1>#<param-2>##....<param-n>##<method-
name-2>#<param-1>#<param-2>#....<param-n>##.....##"
```

• **Method**: For example: to execute the method **setURL()**, give the following method a string for the URL:

```
"setURL#<url>##"
```

Password

Description

Specifies the password the eWay must use to access the database.

Required Values

Any valid string.

PortNumber

Description

Specifies the input-output port number on which the server is listening for connection requests.

Required Values

A valid port number; there is no default.

ServerName

Description

Specifies the host name of the external database server.

Required Values

Any valid string.

User

Description

Specifies the user name the eWay must use to access the database.

Required Values

Any valid string.

3.3.2. Setting the Properties in the Inbound eWay

You can set these properties using the eWay **Properties** sheet. See Figure 5 on page 24.

The eWay's properties, under the **Environment Configuration** folder, in the **Environment Explorer** are:

- "DatabaseName" on page 24
- "Password" on page 24
- "PortNumber" on page 25
- "ServerName" on page 25
- "User" on page 25

Properties Image: Constraint of the second seco

Figure 5 eWay Properties Sheet: Inbound Settings on the Project Environment

DatabaseName

Description

Specifies the name of the database instance.

Required Values

Any valid string.

Password

Description

Specifies the password used to access the database.

Required Values

Any valid string.

PortNumber

Description

Specifies the input-output port number on which the server is listening for connection requests.

Required Values

A valid port number. The default is **1433**.

ServerName

Description

Specifies the host name of the external database server.

Required Values

Any valid string.

User

Description

Specifies the user name the eWay uses to connect to the database.

Required Values

Any valid string.

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Using the ADABAS Database Wizard

This chapter describes how to use the ADABAS Database wizard to create ADABAS Object Type Definitions (OTDs) in eGate.

Chapter Topics

- "Overview" on page 26
- "Wizard Procedures" on page 26
- "Resulting OTD" on page 40

4.1 **Overview**

You can use the eGate Enterprise Designer's ADABAS Database wizard to generate an eGate OTD. For more information on Enterprise Designer features, see the *eGate Integrator User's Guide*.

The ADABAS Database wizard generates OTDs by connecting to an external ADABAS file system as if it were connecting to a database and creating corresponding OTDs. The OTD builder can then create corresponding OTDs based on any combination of tables.

Field nodes are added to the OTD based on the tables in the external data source. Java method and property nodes are added to provide the appropriate JDBC functionality. For more information on these Java methods, refer to your JDBC developer's reference.

4.2 Wizard Procedures

This section explains how to use the ADABAS Database wizard to create ADABAS OTDs.

4.2.1 Generated OTDs

The ADABAS Database wizard can create OTDs for the ADABAS eWay. These types of OTDs can also be combined with each other. The types of OTDs are:

- **Table**: Contains fields for each of the columns in the selected table, as well as the methods required to exchange data with an external data source.
- View: The same as a table, except for read-only purposes.
- **Prepared Statements**: Allow you to add prepared SQL statements to an OTD.

For more information on these types, see **Chapter 6**.

4.2.2 Creating an ADABAS OTD

To create an ADABAS OTD using the wizard

- 1 From the eGate Enterprise Designer's Enterprise Explorer pane (Project tab), rightclick on the desired Project folder and select New then Create an Object Type Definition from the pop-up menu.
- 2 The **OTD Wizard Selection** window appears, displaying all installed OTD wizards as shown in Figure 6.

New Object Type Definition Wizard 🗙						
Select Wizard Type						
	OTD Wizard Description					
	Corba Client Wizard	Uses CORBAIDL to create an OTD				
	ADABAS Database	Uses an ADABAS file to create an OTD				
	TD DTD	Uses an DTD to create an OTD				
and the second second	📲 IAM Database	Uses an IAM file to create an OTD				
PTS IN THE REAL	IDMS Database	Uses an IDMS file to create an OTD				
	📲 IMSDB Database	Uses an IMSDB file to create an OTD				
	📲 User-Defined OTD	Allows the user to create a custom OTD				
	📲 VSAM Database	Uses a VSAM file to create an OTD				
		Wizard for creating WSDL OTD				
	The second sec					
Jan Jan						
SEEBEYOND						
SEEBETUND						
ſ	< Back Next >	Finish Cancel Help				
l						

Figure 6 OTD Wizard Selection Window

3 From the list, select the ADABAS Database OTD. Click Next.

The **Specify Database Connection Information** window appears. See **Figure 7 on page 28**.

Figure 7 Specify Database Connection Information Window

New Wizard - ADABAS Database 🛛 😣					
Steps 1. Select Wizard Type 2. Connect to Database 3. Select Database Objects 4. Select Tables/Views 5. Select Procedures 6. Add Prepared Statements 7. Specify the OTD Name 8. Review Selections	Specify Database Connection Information Please enter the ADABAS database connection information below. Connection Information Host name: Port ID: Database: User name: Password:	-			
	< Back Next > Finish Cancel Help	כ			

- 4 Specify the connection information for the current database as follows:
 - Host name: The name of the host you are connecting to.
 - **Port ID**: The host port number.
 - **Database**: The name of the database you are connecting to.
 - User name: Your user ID.
 - **Password**: Your password.
- 5 Click Next.
- 6 When the **Connection Status** line says you are connected to the database, click **Next** to continue.
- 7 In the **Select Database Objects** window, select **Tables/Views**. Click **Next** to continue. See Figure 8.

Figure 8 Select Database Objects Window

New Wizard - ADABAS Database 🛛 😵				
Ste 1. 2. 3. 4. 5. 6. 7. 8.	Select Wizard Type Connect to Database Select Database Objects Select Tables/Views Select Procedures	Select Database Objects Which of the following database objects would you like to include in your OTD? (Select at least one) Image: Tables/Views Procedures Prepared Statements		
/	SEEBEYOND	Connection established: _{Host.} oedipus:9010 _{Database:} CACSAMP		
		< Back Next > Finish Cancel Help		

The **Select Tables/Views** window appears. See **Figure 9 on page 30**.

	New Wizard - ADABAS Database 🛛 🕺
Steps	Select Tables/Views and specify Column information
1. Select Wizard Type 2. Connect to Database	Selected Tables/Views
 Select Database Objects Select Tables/Views Select Procedures Add Prepared Statements Specify the OTD Name Review Selections 	Name Catalog Schema Type Add Remove
SEEBEYOND	Description Change Use fully-qualified table/view names in the generated Java code.
	< <u>Back</u> Next > <u>Finish</u> Cancel <u>H</u> elp

Figure 9 Select Tables/Views Window

Note: You must select the **Use fully-qualified table/view names in the generated** *Java code check box.*

To select tables and views

1 Click Add.

The Add Tables window appears. See Figure 10 on page 31.

	Add T	ables	8		
_Table/View Search—					
Type the exact Table/View Name or use Wildcard characters.					
Name:		All Schemas 🔽	Search		
💿 Tables Only 🔾 V	/iews Only 🔘 Both	🗌 Include system table	s		
-Table/View Selection					
Results: 0 Records					
Name	Catalog	Schema	Type		
Select Selected: 0 Records					
Name	Catalog	Schema	Туре		
Remove					
		ОК	Cancel		

Figure 10 Add Tables Window: Beginning

Note: Views are read-only and for informational purposes only.

2 Select the schema you want to search in the **All Schemas** drop-down list and click **Search**. See **Figure 11 on page 32**.

	Add T	ables	8			
_Table/View Search—						
Type the exact Table/View Name or use Wildcard characters.						
Name:		CAC 🔽	Search			
💿 Tables Only 🔾 \	/iews Only 🔘 Both	Include system 1	ables			
Table/View Selection						
Results: 5 Records						
Name	Catalog	Schema	Туре			
ADABWINE		CAC	TABLE			
CICSEMP		CAC	TABLE			
COBTYPEV		CAC	TABLE			
EMPLVSAM		CAC	TABLE			
IDMSWINE		CAC	TABLE			
Select						
Selected: 0 Records						
Name	Catalog	Schema	Туре			
Remove						
		0	K Cancel			

Figure 11 Add Tables Window: With Schemas

3 Select the desired table and click **Select**. You can also use adjacent or nonadjacent selections to select multiple table names.

Every name of the table or tables you have selected appear in the lower pane. See **Figure 12 on page 33**.

You can click **Search** to find the desired table or tables.

You can use wildcard characters to search for a table or view. If desired, use the eWay wildcard characters "?", "_", and "*". For example, you can use "AB?CD", "AB_CD," or "AB*CD". However, do not use "%". Using this character results in nothing being returned.

		Add T	ables				
_Table/View Searc	h						
Type the exact Tab	le/View Name	e or use Wi	ldcard c	haracters.			
Name:			CAC	-		Search	
Tables Only	Tables Only O Views Only O Both I Include system tables						
Table/View Select	tion						
Results: 5 Recor	ds						
Name	Cat	alog	Sc	:hema		Туре	
ADABWINE			CAC		TABLE		
CICSEMP			CAC		TABLE		
COBTYPEV			CAC		TABLE		
EMPLVSAM			CAC		TABLE		
IDMSWINE			CAC		TABLE		
Select Selected: 1 Reco	ırds						
Name	Cat	alog	Sc	hema		Туре	
ADABWINE			CAC		TABLE		
Remove							
					ок	Cancel	

Figure 12 Add Tables Window: With Added Table

4 When you are finished, click **OK**.

The **Select Tables/Views** window appears again, showing your one or more selected tables. See **Figure 13 on page 34**. The figure shows one table selected, **EMPLOYEES**.

	New Wizard - ADABAS Database 🛛 🗙
Steps	Select Tables/Views and specify Column information
 Select Wizard Type Connect to Database Select Database Objects Select Tables/Views Select Procedures Add Prepared Statements Specify the OTD Name Review Selections 	Selected Tables/Views Name Catalog Schema Type ADABWINE CAC TABLE
SEEBEYOND	Add Remove Description ADABWINE: 18 columns selected. Change Use fully-qualified table/view names in the generated Java code.
	< <u>B</u> ack Next > <u>F</u> inish Cancel <u>H</u> elp

Figure 13 Select Tables/Views Window With Table

5 In the **Select Tables/Views** window, review the table or tables you have selected. You can make changes to the table columns, if desired, by clicking **Change** to open the **Table/View Columns** window.

See **"Using Tables" on page 56** for more information on how to use tables with the OTD.

6 If you click **Change** on the **Select Tables/Views** window, the **Table/View Columns** window appears. See **Figure 14 on page 35**.

	Table/View	w Columns 🛛 😵		
	or:ADABWINE			
-Column S	election			
	Column Name	Туре		
	WKEY	CHAR		
	WNAME	CHAR		
	WSTREET	CHAR		
	WCITY	CHAR		
	WSTATE	CHAR		
	WZIP	CHAR		
	WPHONE	CHAR		
	WPRICE	CHAR		
	WOPEN	CHAR		
	WCLOSE	CHAR		
	WTOURS	CHAR		
	LATROTULO			
Select All Invert Selection Clear All				
* Primary Key + non-nullable column <u>A</u> dvanced				
Restore Metadata OK Cancel				

Figure 14 Table/View Columns Window

7 In the **Table/View Columns** window, you can select or deselect any table columns. You can also change the data type for each column by highlighting the data type and selecting a different data type from the drop-down list.

The buttons in this window operate as follows:

- Select All: Allows you to select all columns for inclusion in the OTD.
- Invert Selection: Allows you to invert the order of the selected columns.
- Clear All: Allows you to de-select all columns.
- Advanced: Opens a dialog box allowing you to change the current column properties of every column. You can edit the column's SQL Type, Precision or Length, and Scale.
- **Restore Metadata**: Allows you to restore the data to its original database state before you made any changes via the wizard.

When you are finished using this window, click **OK** to save your changes and return to the **Select Tables/Views** window.

8 When you are finished with the **Select Tables/Views** window (see **Figure 13 on page 34**), click **Next** to continue.

The Add Prepared Statements window appears. See Figure 15 on page 36.

	New Wizard - ADABAS Database	8
Steps	Add Prepared Statements	_
 Select Wizard Type Connect to Database Select Database Objects 	Prepared Statements	
 Select Tables/Views Select Procedures Add Prepared Statements Specify the OTD Name 	Name SQL Statement	1
8. Review Selections		
	Add Edit Remove	J
	Description	- -
	Edit Parameters	
SEEBEYOND	Edit ResultSet Columns	Ŋ
	< <u>B</u> ack Next > <u>Finish</u> Cancel <u>H</u> elp	

Figure 15 Add Prepared Statements Window

If you do not want to add any prepared statements, click **Next** to go to the next window in the wizard.

To add prepared statements

1 If you do want to add a prepared statement, click **Add** on the **Add Prepared Statements** window.

The Add Prepared Statement dialog box appears. See Figure 16.

	Add Prepared	Statement	
Prepared Stateme <u>n</u> -SQL Statement-	Name:		
		-	
Open	Save As		
		<u>o</u> k	<u>C</u> ancel

Figure 16 Add Prepared Statement Dialog Box

- 2 Enter a name for your prepared statement.
- ³ Create an SQL statement by clicking in the **SQL Statement** pane and entering your statement, for example:

Select * from ADABWINE where WNAME like ?

- 4 If desired, when you are finished creating the statement, click **Save As** and give the statement a name. You can also click **Open** to access an existing prepared statement.
- 5 When you are finished, click **OK**.

The **Add Prepared Statements** window displays the name of your new prepared statement in the list pane.

6 To edit the parameters, click **Edit Parameters**. Using the resulting dialog box, you can change the data type by clicking the **Type** field and selecting a different type from the list.

7 Click **Add** if you want to add additional parameters to the statement, or highlight a row and click **Remove** to remove it then click **OK**. See Figure 17.

Pre	epared Statement Paramet	iers 🛛 🗴	
Prepared Statement Parameters For: PreparedStatement			
Parameters			
Index	Name	Туре	
1	param1	VARCHAR	
		Add Remove	
	-		
		OK Cancel	

Figure 17 Edit Prepared Statement Parameters

8 To edit the result set columns, click **Edit ResultSet Columns**. In the resulting dialog box, both the **Name** and **Type** are editable, but it is recommend that you do not change the name. Doing so can cause a loss of integrity between the result set and the database. See Figure 18.

Figure 18 ResultSet Columns	5
-----------------------------	---

ResultSet Colun	nns For: PreparedStatement	×
_ResultSet Colu	mns	
Index	x Name	Туре
1	WKEY	CHAR
2	WNAME	CHAR
3	WSTREET	CHAR
4	WCITY	CHAR
5	WSTATE	CHAR
6	WZIP	CHAR
7	WPHONE	CHAR
8	WPRICE	CHAR
9	WOPEN	CHAR
10	WCLOSE	CHAR
11	WTOURS	CHAR
12	WTASTING	CHAR
12		СЦАР
		Add Remove
		OK Cancel

- 9 Whey you are finished with the dialog box, click **OK**.
- 10 On the Add Prepared Statements window, click OK.
- 11 When you are finished with the **Add Prepared Statements** window (see **Figure 15 on page 36**), click **Next** to continue.

The Specify the OTD Name window appears. See Figure 19 on page 39.

Figure 19 Specify the OTD Name Window

	New Wizard - ADABAS Database	۲
Steps 1. Select Wizard Type 2. Connect to Database 3. Select Database Objects 4. Select Tables/Views 5. Select Procedures 6. Add Prepared Statements 7. Specify the OTD Name 8. Review Selections	Specify the OTD Name OTD Name: ADABAS_OTD	
(< <u>B</u> ack Next > <u>F</u> inish Cancel <u>H</u> elp	

To create the OTD

1 Enter a name you want to specify for the current OTD, for example, **ADABAS_OTD**, and click **Next**.

The **Review your Selections** window appears. See Figure 20 on page 40.

	New Wizard - ADABAS Database	8
Steps	Review your Selections	
 Select Wizard Type Connect to Database Select Database Objects Select Tables/Views Select Procedures Add Prepared Statements Specify the OTD Name Review Selections 	Review your Selections You have successfully completed the Database Wizard. Please review your selections. Connection Information Connection type: SeeBeyond ADABAS Host name: oedipus Port ID: 9010 Database: CACSAMP User name: CACPVWVD Selected Tables/Views ADABWINE Selected Prepared Statements PreparedStatement OTD Information OTD Name: ADABAS	
	To close this wizard, click Finish.	
	< <u>B</u> ack Next > <u>Finish</u> Cancel <u>H</u> elp	

2 Review the information you have entered (see Figure 20). If any information is incorrect, click **Back** to return to the desired window and correct it. If all the information is correct, click **Finish** to create your OTD.

4.3 **Resulting OTD**

The resulting ADABAS OTD appears on the eGate Enterprise Designer's canvas, in the OTD Editor window. See **Figure 21 on page 41**.

In the example, a node in the OTD has been expanded, allowing you to view some of its structure.

Reference 🤼 🕱	Object Type Definition	Properties
Reference Na S	Object Type Definition ADABAS_OTD ADABWINE WKEY WKEY WREET WRITE WORTY WRETATE WPHONE WOPEN WCLOSE WTOURS WRETAILSALE WOPLICAP WRETAILSALE WONLINESALE WOPDILIC WAPPT Elete Ele	Properties Name Properties javaName ADABAS_OT isTop true comment ADABAS_OTD name ADABAS_OTD isPublic true

Figure 21 OTD Editor in Enterprise Designer

Chapter 5

Reviewing the Sample Projects

This chapter describes how to implement the ADABAS eWay via a review of the sample Projects included with the eWay. The following Projects are included:

- Sample that employs SeeBeyond ICAN Suite's eInsight Business Process Manager and operates using eInsight Business Processes
- Sample that operates using Java-based Collaborations in eGate

This chapter assumes that you are already familiar with eGate and eInsight concepts and that you understand the basics of creating a Project using the eGate Enterprise Designer.

For a complete explanation how to use eInsight, see the *eInsight Business Process Manager User's Guide*. For a complete explanation of how to use the eGate Enterprise Designer to create and set properties for the components of an eGate Project, see the *eGate Integrator User's Guide*.

Chapter Topics

- "eGate Project Description" on page 42
- "Using the eWay With eInsight" on page 46
- "Summary: Sample Business Process Project" on page 46
- "Creating Collaboration Definitions" on page 51
- "Summary: Sample Collaboration (Java) Project" on page 51
- "Creating the Project's Environment" on page 53
- "Setting eWay Properties" on page 53
- "Deploying a Project" on page 54

5.1 eGate Project Description

This section provides an overview of the eGate sample Projects for the ADABAS eWay and how to import and use them.

5.1.1 Projects and the Enterprise Designer

A Project contains all of the eGate components you designate to perform one or more desired processes in eGate. Each eGate Project is created using the Enterprise Designer's Project canvas.

The Project canvas contains windows that represent the various stages of your Project. The types of windows in your Project canvas area include:

- **Connectivity Map Canvas**: Contains the eGate business logic components, such as Collaborations, Topics, Queues, and eWays, that you include in the structure of the Project.
- **OTD Editor**: Contains the source files used to create Object Type Definitions (OTDs) to use with a Project.
- **Business Process Canvas**: Allows you to use eInsight's Business Process management features.
- **Collaboration Editor (Java)**: Allows you to create and/or modify Business Rules to implement the business logic of a Project's Java-enabled Collaboration Definition.

5.1.2 Importing Sample Projects

Before you can view or work with a sample Project, you must first import it into eGate, using the Enterprise Designer.

Note: The sample .*zip* file you first download may contain more than one Project and/or additional files. If this is the case, you must unzip this file first, find the desired Project file, then import the Project file. For details on how to download this file, see the SeeBeyond ICAN Suite Installation Guide.

The container file you are looking for is **ADABAS_eWay_Sample.zip**. The Project file names are:

- ADABAS_Project_BPEL.zip: eInsight Project
- ADABAS_Project_JCE.zip: Collaboration (Java) Project

You can name the imported Projects as desired.

To import a sample Project

- 1 From the Enterprise Designer's **Project Explorer** pane, right-click the desired Repository and select **Import**.
- 2 On the **Import Manager** window, browse to the directory that contains the sample Project .**zip** file.
- 3 Select the sample Project file and click **Open**.
- 4 Click **Import**. If the import was successful, click **OK** on the **Import Status** dialog box.
- 5 Close the **Import Manager** window and select **Refresh All from Repository** from the shortcut menu.

Important: An imported Project does not contain an environment or a deployment profile. After importing a Project, you must use the Enterprise Designer to create these functions for the Project. See "Creating the Project's Environment" on page 53 and "Deploying a Project" on page 54. For additional information, see the eGate Integrator User's Guide and SeeBeyond ICAN Suite Deployment Guide.

You must check out the major eGate components before you can change them.

5.1.3 Basic eWay Components

Each Project allows you to set up eWays to perform the necessary operations. To use the ADABAS eWay in a Project, you must:

- Set the desired properties settings.
- Create one or more ADABAS OTDs.

The sections in this chapter, which describe the Project, explain more about how to do these operations.

ADABAS eWay Properties

The properties for the ADABAS eWay contains the settings used to connect with a specific external system. You can change these settings using the eGate eWay **Properties** sheet. For more information about ADABAS eWay properties and this dialog box, see **Chapter 3**.

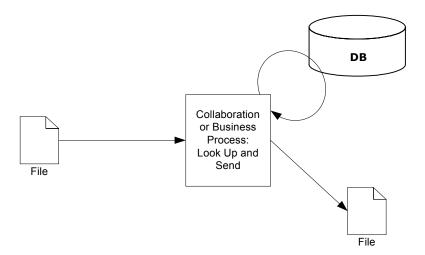
ADABAS OTDs

You create the ADABAS OTD using the ADABAS OTD wizard feature. See **Chapter 4** for details on how to use this wizard.

5.1.4 Overview: Sample Projects

The ADABAS eWay sample Projects demonstrate how the ADABAS eWay processes information from an ADABAS system. The resulting information is then written to a text file. Figure 22 shows a general diagram of how this scenario operates.

Figure 22 Sample Project Scenario



Project Components

Each Project has the following components:

- File external application (inbound): FileIn
- Inbound File eWay
- Business logic implementation employs one of the following components:
 - eInsight Business Process for processing data: BP_Service
 - Collaboration (Java) for processing data: Collab_Service
- ADABAS eWay
- External ADABAS database: ADABAS1
- Outbound File eWay
- File external application (outbound): FileOut

Project Operation

Each Project operates as follows:

- **FileIn**: The external file system that provides query and selection instructions to the inbound File eWay; this eWay gets a text file containing the instructions and passes them to a Business Process, **BP_Service**.
- Business logic implementation employs one of the following components:
 - **BP_Service**: Sends instructions, using a **SelectOne** Business Process operation, to the desired ADABAS database via the ADABAS eWay. **BP_Service** also receives the information looked up, via the ADABAS eWay, then sends it to a File eWay, **FileOut**.
 - **Collab_Service**: Sends instructions, using a **select** method, to the desired ADABAS database via the ADABAS eWay. **Collab_Service** also receives the information looked up, via the ADABAS eWay then sends it to a File eWay, **FileOut**.
- **ADABAS1**: The ADABAS database system; the ADABAS eWay handles inbound and outbound communication with this database.
- **FileOut**: The external file system that receives the query information; another File eWay writes the database information to a text file on this system.

Input and Output Data

The sample Project has the following input and output:

- Input: Use the file, inputadabas.txt, provided with the sample.
- **Output**: The information, in a text file, selected from the database.

5.2 Summary: Sample Business Process Project

This section explains how to implement the ADABAS eWay using the eGate Project sample with an eInsight Business Process. This sample is included on your installation CD-ROM. The sample is named **ADABAS_Project_BPEL**. It allows you to observe an end-to-end data-exchange scenario involving eGate and the ADABAS eWay.

This section also explains how to implement this sample Project, including the ADABAS eWay. You can use the procedures given in this section to create your own Projects based on the sample provided.

5.2.1 Using the eWay With eInsight

You can set up and deploy an eGate component using eInsight. Once you have associated the desired component with a Business Process, the eInsight engine can automatically invoke that component during run time, using a Business Process Execution Language (BPEL) interface. *Note:* You must have the *eInsight.sar* file installed to use the features explained in this section. See the *SeeBeyond ICAN Suite Installation Guide* for complete installation procedures.

Using eInsight With eGate Components

Examples of eGate components that can interface with eInsight in this way are:

- Java Messaging Service (JMS)
- Object Type Definitions (OTDs)
- An eWay
- eGate Services

Using the eGate Enterprise Designer and its eInsight canvas, you can add a desired operation to a Business Process, then associate that process with an eGate component, for example, a Service. In the Enterprise Designer, associate the Business Process and Service icons using drag-and-drop operations.

See the *eInsight Business Process Manager User's Guide* for details.

ADABAS eWay With eInsight

You can add ADABAS eWay objects to an eInsight Business Process during the system design phase. To make this association, select the desired operation, for example **Insert** or **Update**, under the eWay in the Enterprise Explorer and drag it onto the eInsight Business Process canvas. In turn, you can activate a Business Process in eGate by dragging it onto a Service or onto the Business Process canvas.

At run time, the eInsight Engine is able to invoke each of the steps in order as set up in the Business Process. Using the engine's BPEL interface, eInsight in turn invokes the ADABAS eWay operations, as well as any other eWays in the current Project.

Table 1 shows the eInsight Business Process operations available to the ADABAS eWay, as well as the inputs and outputs to each of these operations.

elnsight Business Process Operation	Input	Output
SelectAll	where() clause (optional)	Returns all rows that fit the condition of the where() clause.
SelectMultiple	Number of rows where() clause (optional)	Returns the number of rows specified that fit the condition of the where() clause.
SelectOne	where() clause (optional)	Returns the first row that fits the condition of the where() clause.
Insert	Definition of new item to be inserted	Returns status of the insert operation.
Update	where() clause	Returns status of the update operation.
Delete	where() clause	Returns status of the delete operation.

Table 1 Available eInsight ADABAS Business Process Operations

Note: The *where* clause can be left blank for *SelectAll*, *SelectMultiple*, and *SelectOne*. If this clause is imbedded in an input file, the file can contain nothing (empty). If the clause is imbedded in a *Literal*, it can be a blank *Literal*.

Figure 23 shows the Enterprise Designer's **Project Explorer** with all the ADABAS eWay Business Process operations exposed under the OTD icon.

🐮 📄 Enterprise Explorer (Project Explorer) 📄 Ӿ		
Repository1		
ADABAS1		
ADABWINESelectOne		
- 🥄 CMap1		
- 💽 FileOut		
– 🛅 Fileln		
🛉 🖣 📲 ADABAS_OTD		
- C ADABWINESelectAll		
- C ADABWINESelectMultiple		
ADABWINESelectOne		
- ADABWINEInsert		
- ADABWINEUpdate		
- ADABWINEDelete		
🗣 🦚 SeeBeyond 🛛 🔽		
Project Explorer Environment Explorer ×		

Figure 23 Project Explorer With Business Process Operations

Before you can make these Business Process operations available, you must first create an ADABAS OTD using the Database wizard. See **Chapter 4** for details on this operation.

5.2.2 Using a Business Process

Once you have designed your Business Process for this sample, you can use the eGate Enterprise Designer to create it. See **"Overview: Sample Projects" on page 45** for a description of the sample's Business Process.

The eInsight sample Project Business Process includes the following steps:

- 1 An inbound File eWay subscribes to an external directory, and picks up a text request for specific data. The sample Project uses the text file **inputadabas.txt** to acquire data from an ADABAS database.
- ² The File eWay sends the data to an eInsight Activity, which then sends a request to the ADABAS eWay to get and return the requested data from the ADABAS database.

³ The eInsight Activity converts the related data received from the ADABAS database to a text file and then uses an outbound File eWay to publish this information an external file.

Figure 24 demonstrates how these operations appear on the sample Project's Business Process canvas.

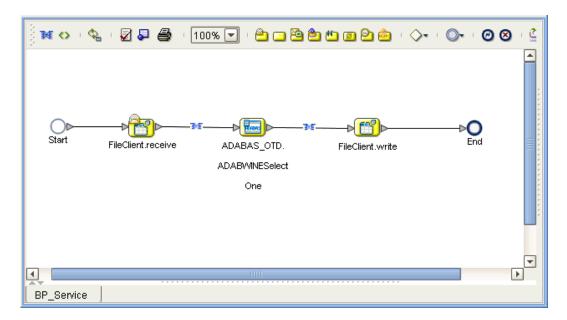


Figure 24 Sample Project Business Process

5.2.3 Configuring the Modeling Elements

Business Rules are defined and configured between the Business Process Activities located on the modeling canvas. The sample Project contains the Business Rules that govern each of the Activities listed in a Business Process flow.

Business Rules found in the sample Project include:

- "Copying the Output File" on page 49
- "Returning the Value" on page 50
- *Note:* A detailed description of the steps required to configure modeling elements is found in the *eInsight Business Process Manager User's Guide*.

Copying the Output File

The **FileClient.receive.Output** container copies the output file containing the text requests a specific name and queries a **whereClause** in the OTD input container. See **Figure 25 on page 50**.

Business Rule Designer	5 🚛 or » not » 🗫 🗛 👓 » 🛄 🏷 🖿 💠 👔 🕕 .
Output All Business Process Attributes FileClient.receive.Output text BP_Service	Input All Business Process Attributes ADABAS_OTD.ADABWINESelectOne.Input input whereClause

Figure 25 Copying the Output File

Returning the Value

The OTD output container queries the ADABAS database for all text values of the type **WNAME** that fit the requested name, then writes the resulting value to a text file using the **FileClient.write.Input** container. See Figure 26.

Figure 26	Returning the Requested Value
-----------	-------------------------------

Business Rule Designer	
[🗄 🚬 » » 🕂 AND 🦯 == 🔅 = OR » NOT » 🐉 🗛 🚧 » 🛄 🍗 🝗 🖈 👘 (1) U-l) »
Output All Input	All
🚰 Business Process Attributes 🛛 🔹 Business Proce	ess Attributes - 🍯
🛿 🖗 📲 ADABAS_OTD.ADABWINESelectOne.Output 📃 🛛 💦 FileClient.w	rite.Input 🍡 🆣
🕴 👳 📫 output	text 🔷 🚽 👘
WNAME	
- 🔷 WCLOSE	
- 🔷 WPRICE	
- 🔷 WKEY	
- 🔶 WSTREET	
BP_Service	

5.2.4 Completing the Project

For instructions on how to finish implementing your Project, see the following sections:

- "Creating the Project's Environment" on page 53
- "Setting eWay Properties" on page 53
- "Deploying a Project" on page 54

5.3 Summary: Sample Collaboration (Java) Project

This section explains generally how to implement the ADABAS eWay using the eGate Project sample with Java-based Collaborations. This sample is included on your installation CD-ROM. The sample is named **ADABAS_Project_JCE**. It allows you to observe an end-to-end data-exchange scenario involving eGate and the ADABAS eWay.

For instructions on how to import the sample Project, see the **procedure on page 43**. For an overview of the sample Project and what is does, see **"Overview: Sample Projects" on page 45**.

5.3.1 Creating Collaboration Definitions

The eGate Enterprise Designer contains a Collaboration Definition wizard (Java) that allows you to create Java-based Collaborations. You must use the wizard to create a Collaboration Definition before implementing the Collaboration.

5.3.2 Using the Collaboration Editor (Java)

The Collaboration Editor (Java) window displays in the Enterprise Designer after you create a Collaboration Definition (Java). You can also open this Editor by right-clicking on the name of the desired Collaboration Definition in the **Project Explorer** and choosing **Open** from the pop-up menu.

This user interface allows you to create the Business Rules that implement your business logic for a Java-enabled Collaboration. You can create the desired Business Rules for your Project by dragging and dropping values from a source OTD onto the nodes of a destination ADABAS OTD and other OTDs. ADABAS OTD nodes represent ADABAS functions, which are in turn able to call ADABAS methods.

See the *eGate Integrator User's Guide* for complete information on how to use the Collaboration Editor (Java).

Figure 27 on page 52 shows an example of the Collaboration Editor (Java).

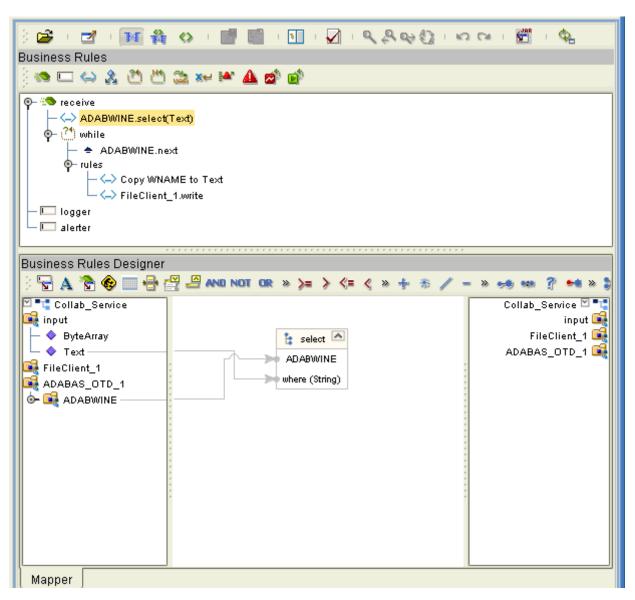


Figure 27 Collaboration Editor (Java) With Business Rules

5.3.3 Completing the Project

For instructions on how to finish implementing your Project, see the following sections:

- "Creating the Project's Environment" on page 53
- "Setting eWay Properties" on page 53
- "Deploying a Project" on page 54

5.4 Creating the Project's Environment

This section provides general procedures for creating an Environment for your Project. For a complete explanation, see the *eGate Integrator User's Guide*.

To create an Environment

- 1 From the Enterprise Designer, click the **Environment Explorer** tab on the Enterprise Explorer.
- 2 Under the current **Repository** icon in the **Environment Explorer**, create a new environment for your Project and name it as desired.
- ³ In the **Environment Explorer**, right-click the **Environment** icon and select the desired external systems from the pop-up menu. Include external systems for the ADABAS eWay and the File eWays (inbound and outbound). Give them the same names as you did the corresponding external applications on the Connectivity Map.
- 4 Use the same pop-up menu to create a Logical Host for your Project, and name it as desired.
- 5 Click **Save** and return to the **Project Explorer** tab.

5.5 Setting eWay Properties

You must set the eWay properties for your specific system and for the current Project, using the eGate Enterprise Designer. For directions on accessing and using the eWay **Properties** sheet, as well as a complete explanation of the ADABAS eWay properties, see **Chapter 3**.

To set properties for the File eWays

- 1 From the **Project Explorer**, open the **CMap_ADABASSelect** Connectivity Map for the sample Project.
- 2 To change the default properties for the inbound File eWay, double-click the **FileIn** external system's eWay icon. For this eWay, select the **Inbound** properties.

The eWay **Properties** sheet appears. This eWay can use the current default properties settings for the sample Project. However, if you are using different file names and/or folders than the defaults, you must enter the names of the files/ folders you are using.

- *Note:* Even if you do not change the eWay's properties, you must open each *Properties* sheet for every eWay and click *OK* to activate the eWay.
 - 3 For this sample, use the C:\temp as the property for Directory, and for Input file name, enter *.txt.
 - 4 Click **OK** to save the settings and close the eWay **Properties** sheet.

5 To change the default properties for the outbound File eWay, double-click the **FileOut** external system's eWay icon. For this eWay, select the **Outbound** properties.

Use your file and folder names if they differ from the defaults. For all other properties, you can use the defaults.

6 Click **OK** to close the dialog box and save.

To set properties for the ADABAS eWays

1 To begin changing the default properties for the ADABAS eWay, double-click the **ADABAS1** external system's eWay icon.

The eWay **Properties** sheet appears.

- 2 The properties settings appear in the **Properties** pane on the left.
- ³ Set the properties as desired then click **OK** to close the dialog box and save.
- 4 From the Enterprise Designer, click the **Environment Explorer** tab.
- ⁵ In the **Environment Explorer**, right-click the new Environment you created for your Project, and select **New ADABAS External System**. Give this system the same name as you gave the corresponding external application (**ADABAS1**) created on the Connectivity Map in the **Project Explorer**.

For details on how to do these operations, see the *eGate Integrator User's Guide*.

6 In the left pane, right-click the **ADABAS1** external system icon and select **Properties** from the pop-up menu.

The eWay **Properties** sheet appears. Use this dialog box to set additional properties settings.

- 7 The properties settings appear in the **Properties** pane on the left.
- 8 For the settings, enter the information appropriate to your system.
- 9 Click **OK** to close the dialog box and save.

5.6 **Deploying a Project**

This section provides general procedures for Project deployment.

5.6.1 Basic Steps

For a complete explanation of how to deploy and run an eGate Project, see the *eGate Integrator User's Guide* and *SeeBeyond ICAN Suite Deployment Guide*.

To deploy the Project

From the Project Explorer, select the current Project and right-click, choosing New
 > Deployment Profile from the pop-up menus.

- 2 From the **Create a Deployment Profile** dialog box, enter the name of the current Project and select the Environment you created for this Project.
- 3 Click OK.

The Deployment Profile canvas appears as follows:

- The Project's external applications and Services show up as icons on the left side of the canvas.
- The external systems and Logical Host you created under "Creating the Project's Environment" on page 53 show up as windows on the right side of the canvas.
- 4 Set up your Deployment Profile by dragging the icons on the left into the corresponding window on the right.
- 5 Click Save All then Activate.

When the Project has been activated, a pop-up message appears stating the activation was successful.

To run the Project

For instructions on how to run a Project, see the *eGate Integrator User's Guide*.

5.6.2 Alerting and Logging

eGate provides an alerting and logging feature. This feature allows the monitoring of messages and captures any adverse messages in the order of severity, based on a configured severity level and higher. See the *eGate Integrator User's Guide* for an explanation of how to enable the Logging feature.

Chapter 6

Using ADABAS OTDs

This chapter describes operations you can perform using ADABAS Object Type Definitions (OTDs) in eGate.

Chapter Topics

- "Overview" on page 56
- "Using Tables" on page 56
- "Using Views" on page 67
- "Using Prepared Statements" on page 68

6.1 **Overview**

This section explains the types of ADABAS OTDs used with the eWay within the Collaboration Editor (Java), including the OTD's methods.

You can use ADABAS OTD methods with:

- Tables (table OTD)
- Views (view OTD)
- Prepared statements (prepared statement OTD)

Views are read-only and for informational purposes only. Use the OTD wizard (see **Chapter 4**) to create the ADABAS Database OTDs.

User-defined OTD

You can use the OTD wizard to create an eGate User-defined OTD. See the *eGate Integrator User's Guide* for a complete explanation of how to create a User-defined OTD.

6.2 Using Tables

A table OTD represents a database table. It consists of fields and methods. Fields correspond to the columns of a table, while methods are the operations that you can apply to the OTD. This setup allows you to perform select, update, insert, and delete SQL operations in a table.

6.2.1 Using the select Method

The **select** method returns result sets according to a group of predefined defaults. However, you can change these defaults, if desired. In using the **select** method, you can specify the following types of result sets:

- TYPE_FORWARD_ONLY
- TYPE_SCROLL_INSENSITIVE
- TYPE_SCROLL_SENSITIVE

You can also specify the following result sets with a type of concurrency:

- CONCUR_READ_ONLY
- CONCUR_UPDATABLE

To perform an update, insert or delete operation, the type of the result set returned by the **select** method must be CONCUR_UPDATABLE.

Instead of specifying the type of result set and concurrency in the **select** method, you can also use the following methods:

- setConcurrencytoUpdatable
- setConcurrentlytoReadOnly
- setScrollTypetoForwardOnly
- setScrollTypetoScrollSensitive
- setScrollTypetoInsensitive

To call a method in the Collaboration Editor (Java)

- 1 Open the eGate Enterprise Designer's Collaboration Editor (Java) for the desired Collaboration Definition.
- 2 In the editor, navigate to the Business Rules Designer.
- 3 Right-click on the desired node (right or left pane) where you want to call the method.

A pop-up **Method** selection menu appears, showing the methods available for the node. See Figure 28.

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Figure 28 Method Selection Menu for the select Method

4 Select the desired method.

A **Method** box appears in the center pane of the Business Rules Designer. This box represents the chosen method.

Note: Using the *commit* method is optional for all update operations because the Collaboration automatically commits the current transaction when it is done.

6.2.2 Select Operations

To perform a select operation on a table

1 Call the **select** method with the **where** clause specified, if necessary. See Figure 29.

Figure 29 Select Operation: select Method

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The text from the **Text** node instructs the Business Process exactly which data needs to be selected. For example, the content of the input text could be **EMPNO>100**.

2 Loop through the result set using the **next** method. See Figure 30.

Figure 30	Select Operation: next Method
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3 For each loop, process the return record.

6.2.3 Insert Operations

To perform an insert operation on a table

1 Call the **insert** method. See Figure 31.

Figure 31 Insert Operation: insert Method

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2 Set the fields of the table OTD where you want to do the insertion and insert the row using a **Literal**. See Figure 32.

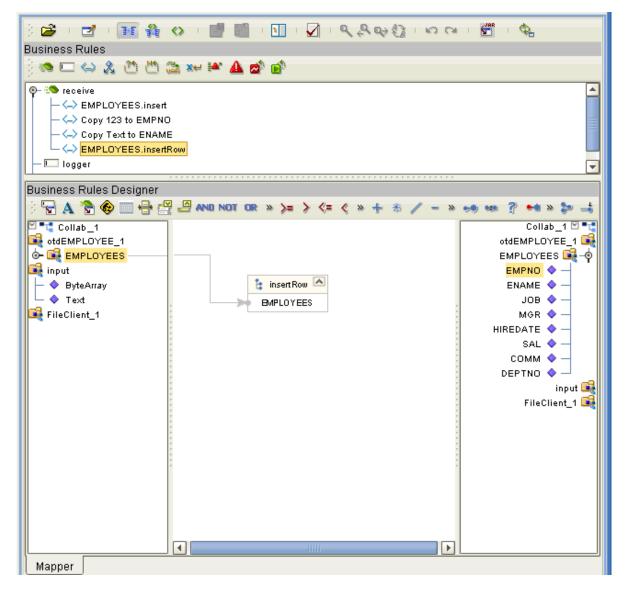
Figure 32 Insert Operation: Literal Indicates the Value Inserted

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If you want to update multiple columns, you can repeat the **Copy** rule, as desired.

3 Activate the insertion by calling the **insertRow** method. See Figure 33.

Figure 33 Insert Operation: insertRow Method



For multiple insert operations, you can use a while rule.

6.2.4 Update Operations

To perform an update operation on a table

1 Call the **update** method with the **where** clause specified, if necessary. See Figure 34.

Figure 34 Update Operation: update Method With Literal

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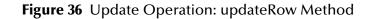
In this case, a **Literal** is used instead of the text node as shown in **Figure 31 on page 61**. Either way of specifying the **where** clause is acceptable.

2 Call the **next** method. See Figure 35.

Figure 35 Update Operation: next Method

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3 Update the row by calling **updateRow**. See Figure 36.



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To update more than one column, you can repeat the **Copy** rule, as desired.

6.2.5 **Delete Operations**

To perform a delete operation on a table

• Call the **delete** method with the **where** clause specified, if necessary. See **Figure 37 on page 67**.

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Figure 37 Delete Operation: delete Method

6.3 Using Views

Views are used to look at data from selected columns within selected tables. View OTDs are read-only.

For select operations, see "Select Operations" on page 59.

6.4 Using Prepared Statements

You can perform table operations with prepared statements with the same method nodes you use for the regular table operations, that is, select, update, insert, and delete SQL operations.

Prepared statements allow you to create any valid SQL statements that comply with ANSI standards. Using this feature, you can execute **select** statements such as **joins** and **union**, **insert**, **update** and **delete** operations. You can also include database operations such as **to_date**, to manipulate input or output values. Parameter markers are also supported.

Any prepared statement you create shows up in the Collaboration Editor (Java) on the OTD where it was created, as a node with the name you assigned to it. You can implement the statement by dragging its node onto the method box for the action (the desired select, update, insert, or delete operation) in which you want the statement to be used.

To use a prepared statement in a Collaboration (Java)

- 1 Using the Enterprise Designer and ADABAS OTD wizard, create an OTD that contains a prepared statement. See the **procedure on page 36** for details.
- 2 Create the desired Collaboration Definition (Java) using this OTD.

The Collaboration Editor (Java) displays the OTD with a **Prepared Statement** node as shown in **Figure 38 on page 69**.

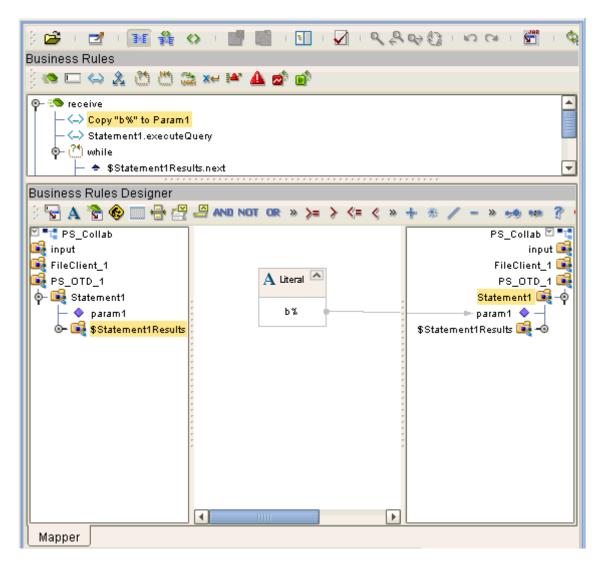
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Figure 38 Prepared Statement Collaboration

In the OTD structure, you can see both the input parameter and the result set represented as nodes.

3 You can assign a **Literal** value or the input from another OTD to the parameter. In the example shown in Figure 39, the **Literal** value assigned to the parameter is **b**%.

Figure 39 Prepared Statement Collaboration: Assigning a Literal Value



4 To run the prepared statement, select the **executeQuery** method from the **Prepared Statement** node. See Figure 40.

Figure 40 Prepared Statement Collaboration: Running the Statement

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5 To view the result set after the query is finished, create a **while** rule. For the condition, create a **next** method from the result set node (**\$Statement1Results** in the example). See Figure 41.

Figure 41 Prepared Statement Collaboration: Viewing Results

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You can continue creating your business logic by adding more Business Rules, if desired.

Using eWay Java Methods

This chapter provides an overview of the Java classes/interfaces and methods contained in the ADABAS eWay. These methods are used to extend the functionality of the eWay.

Chapter Topics

- "ADABAS eWay Methods and Classes: Overview" on page 73
- "eWay Java Classes/Interfaces" on page 74

7.1 ADABAS eWay Methods and Classes: Overview

The ADABAS eWay exposes various Java methods to add extra functionality to the eWay. These methods make it easier to set information in the ADABAS eWay Object Type Definitions (OTDs), as well as get information from them.

7.1.1 Relation to eWay Properties

The nature of this data transfer depends on the properties you set for the eWay in the eGate Enterprise Designer. For more information on the eWay's properties, see **Chapter 3**.

7.1.2 ADABAS eWay Javadoc

For a complete list of the Java methods within the classes listed in this chapter, refer to the **Javadoc**. You can download the Javadoc while you are installing the eWay. For complete instructions, see the *SeeBeyond ICAN Suite Installation Guide*.

7.2 eWay Java Classes/Interfaces

The ADABAS eWay provides the following Java classes/interfaces:

- **ADABASApplicationConnection**: The class that implements the **ApplicationConnection** interface for the database application connection.
- **ADABASApplicationConnectionFactory**: A factory class for creating the ADABAS application connection.
- **ADABASCallableStatementAgent**: The agent that hosts an ADABAS callable statement.
- ADABASConnector: The connector class for the ADABAS database eWay.
- **ADABASCPManagedConnectionFactoryExt**: The factory for the ADABAS connection pool managed connection.
- **ADABASSession**: The session that hosts a connection interface.
- **ADABASTableResultSet**: The result set to map selected records of a table in ADABAS.
- **ADABASXAManagedConnectionFactoryExt**: The factory for ADABAS's XA-managed connection.

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