SYBASE®

Installation Guide

e-Biz Impact™

5.5

Contents

About This Book

Audience This book is for the system administrator who is responsible for installing and configuring e-Biz Impact™.

How to use this book This book contains these chapters:

- Chapter 1, "Installing the e-Biz Impact Client," tells how to prepare and install the graphical user interfaces (GUIs) on a client workstation.

- Chapter 2, "Installing the e-Biz Impact Server," tells how to prepare for and run an installation.

- Chapter 3, "Uninstalling e-Biz Impact," tells how to uninstall and reinstall e-Biz Impact.

- Chapter 4, "Upgrading e-Biz Impact," describes how to migrate cluster components from an earlier version of e-Biz Impact to version 5.5.

Related documents **e-Biz Impact documentation** The following documents are available on the Sybase® Getting Started CD in the e-Biz Impact product container:

- The e-Biz Impact installation guide (this book) explains how to install the e-Biz Impact software.

- The e-Biz Impact release bulletin contains last-minute information not documented elsewhere.

e-Biz Impact online documentation The following e-Biz Impact documents are available in PDF and DynaText format on the e-Biz Impact SyBooks CD:

- The *e-Biz Impact Authorization Guide* explains how to configure e-Biz Impact security.

- *e-Biz Impact Command Line Tools* describes how to execute e-Biz Impact functionality from a command line.

- The *e-Biz Impact Configurator Guide* explains how to configure e-Biz Impact using the Configurator.

- The *e-Biz Impact Feature Guide* describes new features, documentation updates, and fixed problems in this version of e-Biz Impact.

- The *e-Biz Impact Getting Started Guide* provides information to help you quickly become familiar with e-Biz Impact.

- *Monitoring e-Biz Impact* explains how to use the Global Console, the Event Monitor, and alerts to monitor e-Biz Impact transactions and events. It also describes how e-Biz Impact uses the standard Simple Network Management Protocol (SNMP).

- *Java Support in e-Biz Impact* describes the Java support available in e-Biz Impact.

- The *e-Biz Impact MSG-IDE Guide* describes MSG-IDE terminology and explains basic concepts that are used to build Object Definition Language (ODL) applications.

- The *e-Biz Impact ODL Guide* provides a reference to Object Definition Language (ODL) functions and objects. ODL is a high-level programming language that lets the developer further customize programs created with the IDE tools. This guide also provides information about the different types of applications you create and use in an e-Biz Impact implementation

- The *e-Biz Impact TRAN-IDE Guide* describes how to use the TRAN-IDE tool to build e-Biz Impact production objects, which define incoming data and the output transactions produced from that data.

Note The *e-Biz Impact Application Guide* has been incorporated into the *e-Biz Impact ODL Guide*.

The *e-Biz Impact Alerts Guide*, the *e-Biz Impact SNMP Guide*, and the *e-Biz Impact Global Console Guide* have been combined into a new guide—*Monitoring e-Biz Impact*.

Adaptive Server Anywhere documentation   The e-Biz Impact installation includes Adaptive Server® Anywhere, which is used to set up a Data Source Name (DSN) used with e-Biz Impact security and authorization. To reference Adaptive Server Anywhere documentation, go to the Sybase Product Manuals Web site at Product Manuals at http://www.sybase.com/support/manuals/, select SQL Anywhere Studio from the product drop-down list, and click Go.

Note the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

Other sources of information

Use the Sybase Getting Started CD, the SyBooks CD, and the Sybase Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.

- The SyBooks CD contains product manuals and is included with your software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format.

  Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader.

  Refer to the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

  To access the Sybase Product Manuals Web site, go to Product Manuals at http://www.sybase.com/support/manuals/.

Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ **Finding the latest information on product certifications**

1 Point your Web browser to Technical Documents at
http://www.sybase.com/support/techdocs/.

2 Select Products from the navigation bar on the left.

3 Select a product name from the product list and click Go.

4 Select the Certification Report filter, specify a time frame, and click Go.

5 Click a Certification Report title to display the report.

❖ **Finding the latest information on component certifications**

1 Point your Web browser to Availability and Certification Reports at
http://certification.sybase.com/.

2 Either select the product family and product under Search by Product; or
select the platform and product under Search by Platform.

3 Select Search to display the availability and certification report for the
selection.

❖ **Creating a personalized view of the Sybase Web site (including support
pages)**

Set up a MySybase profile. MySybase is a free service that allows you to create
a personalized view of Sybase Web pages.

1 Point your Web browser to Technical Documents at
http://www.sybase.com/support/techdocs/.

2 Click MySybase and create a MySybase profile.

**Sybase EBFs and
software
maintenance**

❖ **Finding the latest information on EBFs and software maintenance**

1 Point your Web browser to the Sybase Support Page at
http://www.sybase.com/support.

2 Select EBFs/Maintenance. If prompted, enter your MySybase user name
and password.

3 Select a product.

4 Specify a time frame and click Go. A list of EBF/Maintenance releases is
displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the "Technical Support Contact" role to your MySybase profile.

5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Conventions　　The formatting conventions used in this manual are:

Formatting example	To indicate
command names and method names	When used in descriptive text, this font indicates keywords such as: • Command names used in descriptive text • C++ and Java method or class names used in descriptive text • Java package names used in descriptive text
myCounter variable *Server*.log *myfile.txt* *User Guide*	Italic font indicates: • Program variables • Parts of input text that must be substituted • File names • Book titles
sybase/bin	Directory names appearing in text display in lowercase unless the system is case sensitive. A forward slash ("/") indicates generic directory information. A backslash ("\\") applies to Windows users only.
File | Save	Menu names and menu items display in plain text. The vertical bar indicates how to navigate menu selections, such as from the File menu to the Save option.
create table table created	Monospace font indicates: • Information that you enter on a command line or as program text • Example output fragments

Accessibility features　　This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

For information about how Sybase supports accessibility, see Sybase Accessibility at http://www.sybase.com/accessibility. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

If you need help   Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

CHAPTER 1   **Installing the e-Biz Impact Client**

This chapter describes how to install the e-Biz Impact client on Windows x86

Topic	Page
Overview	1
System requirements	2
Software required for e-Biz Impact installation	2
Preparing the installation environment	5
Installing the e-Biz Impact client	6
Installing the HL7 repository	8

Note Review the release bulletin on the Getting Started CD included with this package for any last-minute updates to this installation guide.

Overview

The e-Biz Impact client includes these graphical user interface components:

- Configurator – used to configure all e-Biz Impact components.

- Authorization Console – used to configure and manage e-Biz Impact security roles.

- Global Console – used to monitor e-Biz Impact transaction processing.

- MSG-IDE – used to develop acquisition-and-delivery Adaptive Interface Modules (AIMs).

- TRAN-IDE – used to develop Store and Forward Manager (SFM) production objects.

- Event Monitor – used to display Simple Network Management Protocol (SNMP) traps.

The Configurator, Authorization Console, Global Console, and Event Monitor are all snap-ins to the Microsoft Management Console (MMC). See the *e-Biz Impact Getting Started Guide* for more information on these components.

Note The e-Biz Impact client is installed only on Windows operating systems.

System requirements

If you are performing an upgrade, see Chapter 4, "Upgrading e-Biz Impact."

Supported platforms

The e-Biz Impact client is supported on the following operating systems and database management systems:

Operating system	DBMS
Windows x86	ODBC support

Disk space and memory requirements

Disk space	Memory
161MB for the e-Biz Impact client 5.5	256MB for product files
128MB for temporary installation directory	

Software required for e-Biz Impact installation

You must install this software on the e-Biz Impact machine, in this order:

1 Windows operating system.

2   Microsoft SNMP networking option – including Microsoft Windows SNMP Agent if you are running the e-Biz Impact client and the e-Biz Impact server on the same machine. You must install SNMP Services on the client machine. See "Installing the Microsoft SNMP Services" on page 3 for instructions.

3   Compiler – the compiler is necessary only if you plan to write custom C-based or Java-based AIMs or plug-ins. See "Supported platforms and compilers" on page 10 for a list of supported compilers.

Installing the Microsoft SNMP Services

By default, Windows does not have SNMP installed. Therefore, you must install this service, which is distributed by Microsoft as a component of Management and Monitoring Tools on Windows 32-Bit platforms.

❖   **Installing the Microsoft SNMP Trap Service**

1   Select Start | Settings | Control Panel | Add Remove Programs.

2   In the Add/Remove Programs window, select Add/Remove Windows Components in the left pane.

3   When the Windows Components wizard appears, select Management and Monitoring Tools in the Components list.

4   Click Details, select Simple Network Management Protocol if it is not already selected, then click OK.

5   Click Next in the Window Components wizard. The system begins configuring the selected component.

6   When the windows states that you have successfully completed the wizard, click Finish.

7   Close the Add/Remove Programs window.

Note If the installation tries to start the SNMP Service but fails, ignore the failure and continue the installation. You are going to disable the SNMP Service in the next section anyway.

Disabling the Windows SNMP Service

Because e-Biz Impact uses the SNMP EMANATE Master Agent instead of Windows SNMP agent (SNMP Service), you should disable the Windows agent. This ensures that SNMP EMANATE Master Agent service runs by default when you restart your computer:

1   Select Start Settings | Control Panel | Administrative Tools | Services.

2   In the Services window, right-click SNMP Service and select Properties.

3   In the Properties window on the General tab, for Startup Type, select Disable from the drop-down list.

4   Click OK, then close the Services window.

Running Impact processes as services

Use the new utility ims55svchost to run Impact processes as services.

With ims55svchost, you can run more than one Emanate SNMP Service at the same time using different SNMP ports.

ims55svchost syntax

To setup service usage, enter:

```
ims55svchost -setup <<Service Name>>
    [-display <<Service display name>>]
    [-description <<Service description>>]
    [-home <<Service home directory>>]
    [-command <<batch file to run>>]
    [-timeout <<Service shutdown timeout (seconds)>>
```

To verify service usage, enter:

```
ims55svchost -verify <<Service Name>>
```

To remove service usage, enter:

```
ims55svchost -remove <<Service Name>>
```

To stop service usage, enter:

```
ims55svchost -stop <<Service Name>>
```

To start service usage, enter:

```
ims55svchost -start <<Service Name>>
```

To restart service usage, enter:

```
ims55svchost -restart <<Service Name>>
```

ims55svchost **usage examples**

To use ims55svchost to install a service named SNMP-12345 that runs a *.bat* file named *snmp12345.cmd*:

```
ims svchost -install SNMP-12345 -display SNMP-12345
-description SNMP Service on port 12345 -home
D:\snmp\snmp12345 -command snmp12345.cmd -timeout 30
```

A batch file to start *snmp12345.cmd* looks similar to the following:

```
snmp12345.cmd:

set SNMP_PORT=12345
set TRAP_PORT=12346
set NNSY_ROOT=D:\Sybase\ImpactServer-5_5
set PATH=%NNSY_ROOT%\snmp\bin
set SR_MGR_CONF_DIR=%NNSY_ROOT%\snmp\srconf\mgr
set BASE_SR_AGT_CONF_DIR=%NNSY_ROOT%\snmp\srconf\agt
set SR_AGT_CONF_DIR=%NNSY_ROOT%\snmp\srconf\agt.
%SNMP_PORT%
set SR_SNMP_TEST_PORT=%SNMP_PORT%
set SR_TRAP_TEST_PORT=%TRAP_PORT%
mkdir %SR_AGT_CONF_DIR%
copy %BASE_SR_AGT_CONF_DIR%\* %SR_AGT_CONF_DIR%\
snmpdm -d -tcpany
```

Preparing the installation environment

The installer uses a temporary location during the installation process. The default temporary location on Windows is defined in the system environment variables and is usually set to *C:\temp*.

If there is not enough available space in the default temporary location, the installer may not start, or it may start, but notify you that there is not sufficient space available. Do one of the following:

•   Move or delete files to provide space on the default temporary directory.

- Launch the installer using a different temporary directory on a different hard drive. If the specified temporary directory does not exist, the installation falls back to the default temporary location.

❖ **Installing in a temporary directory other than the default**

- Open a Command Prompt window and enter:

```
setup -is:tempdir <full path to alternate temp
directory on a different hard drive>
```

For example:

```
setup -is:tempdir D:\temp
```

This command sets the temporary directory to *D:\temp*. This directory must exist before you execute this command; that is, the command does not create the directory for you.

Logging

Installation information is recorded in the log files contained in the *ismpeLogs* folder, located at *<install dir>/ImpactClient-5_5*.

Installing the e-Biz Impact client

You can install the e-Biz Impact client only on a Windows operating system. These installation instructions assume you are logged in to the system on which you want to install the e-Biz Impact client and have administrative rights.

Note If you are performing an upgrade, see Chapter 4, "Upgrading e-Biz Impact."

❖ **Installing the e-Biz Impact client using the InstallShield wizard**

1 Insert the CD.

2 Select Start | Run.

3 In the Run dialog box, browse to locate the setup file:

```
<CD drive>:\setup.exe
```

4   Click OK. The installer launches.

5   In the Welcome window, click Next.

6   Select the appropriate geographic location from the drop-down list. The license agreement appears in the appropriate language.

7   Read the agreement, accept I Agree, then click Next. The Choose Install Location window appears.

8   To specify an installation directory, perform one of the following:

    a   To accept the default directory, click Next.

    b   To use a different directory, click Browse, select the directory, then click Next.

> **Note** For optimum performance, install all Sybase products in the same directory.

9   In the feature selection window, all of the features are selected by default:

    •   Authorization

    •   Configurator

    •   DevApplication

    •   Event Monitor

    •   Global Console

Accept the default settings, or select the features you want to install, then click Next.

The installation summary window displays the features to install and the approximate required disk space.

10   Click Install. The installation summary window displays a progress bar showing the status of the installation.

11   Click Finish when this message appears telling you the installation was successful.

The directories added to the *<install dir>/ImpactClient-5_5* directory are:

Subdirectory	Description
\Authorization	Contains scripts and files required to register and run the Authorization Console

Subdirectory	Description
Configurator	Contains scripts and files required to register and run the Configurator
DevApplication	Contains scripts and files required to register and run MSG-IDE and TRAN-IDE
EventMonitor	Contains scripts and files required to register and run the Event Monitor
GlobalConsole	Contains scripts and files required to register and run the Global Console
config	Directory into which the Configurator saves *.xml* and *.cfg* cluster files
ismpeLogs	Contains installation and uninstallation log files
_*jvm*	Created by the installation of the java virtual memory used for installation and uninstallation
lib	Library files used in creating C-based AIMs
uninstall	Contains files for uninstalling the e-Biz Impact client

Installing the HL7 repository

The e-Biz Impact client installation includes an "hl7repo" shortcut to the Windows Start | Programs | Sybase | e-Biz Impact menu, which allows you to quickly start the HL7 repository.

Note For more information about using the HL7 repository, see the section entitled "Working with repositories in the *e-Biz Impact TRAN-IDE Guide*, Chapter 2, "Using TRAN-IDE."

CHAPTER 2 **Installing the e-Biz Impact Server**

This chapter describes how to install the e-Biz Impact server on Windows x86, Sun Solaris, IBM AIX, or HP-UX.

Topic	Page
Overview	9
System requirements	9
Pre-installing required software	11
Preparing the installation environment	11
Installing the e-Biz Impact server	12
Understanding environment variables	19

Overview

The e-Biz Impact server runs the security database and runs the application logic for your e-Biz Impact implementation. When you install the e-Biz Impact server, Adaptive Server Anywhere (ASA) 8.0 is also installed to store the authentication database if you choose to use e-Biz Impact security.

System requirements

If you are performing an upgrade, see Chapter 4, "Upgrading e-Biz Impact."

Integration server support

e-Biz Impact 5.5 works with these integration servers:

• Sybase e-Biz Integrator

- IBM MQSeries Integrator

- IBM WebSphere MQ Integrator

Transport driver support

e-Biz Impact supports Open Transport. Open Transport supports these transport drivers:

- EMQ for Open Transport

- Flat file Driver for Open Transport

- MQSeries for Open Transport

- MSMQ for Open Transport

Supported platforms and compilers

The e-Biz Impact server is supported on the following operating systems and database management systems and supports the following compilers:

Operating system	DBMS	Compiler
Windows x86	ODBC	Microsoft Visual C++, version 6.0
Sun Solaris SPARC	UDBC	Sparcworks C++, version 8.0 update 1
IBM AIX	UDBC	VisualAge C++, professional version 6.0
• HP-UX 11.11 (11i) • HP-UX 11.00	UDBC	HP 11 aC++, version A.03.15

Disk space and memory requirements

Disk space	Memory
Windows 270MB	2GB RAM recommended
	1GB RAM minimum
UNIX 770MB	2GB RAM recommended
	1GB RAM minimum

Your solution may require additional memory, depending on configuration and load.

Pre-installing required software

You must install or configure this software on the same machine on which you install the e-Biz Impact server:

*   Operating system, applicable to the platform. See "Supported platforms and compilers" on page 10 for a list of supported platforms.

*   Compiler – if you plan to write custom C-based or Java-based AIMs or plug-ins, you must have a compiler or the capability to perform software builds using a make process. See "Supported platforms and compilers" on page 10 for a list of compatible compilers.

Preparing the installation environment

Temporary installation directory

The installer uses a temporary location during the installation process. The default temporary location on Windows is defined in the system environment variables and is usually set to *C:\temp*. The default temporary location on UNIX is */var/tmp*.

If there is not enough available space in the default temporary location, the installer may not start, or it may start, but notify you that there is not enough space available. Do one of the following:

*   Move or delete files to provide space on the default temporary directory.

*   Launch the installer using a different temporary directory. If the specified temporary directory does not exist, the installation falls back to the default temporary location.

Setting the temporary location on Windows

For Windows, open a Command Prompt window and enter:

```
setup -is:tempdir
```

where *tempdir* is the full path to an alternate temporary directory in a different location.

For example:

```
setup -is:tempdir D:\temp
```

This command sets the temporary directory to *D:\temp*. This directory must exist before you execute this command; that is, the command does not create the directory for you.

Setting the temporary location on UNIX

For UNIX, enter:

```
setup -is:tempdir
```

where *tempdir* is the full path to an alternate temporary directory in a different location.

For example:

```
setup -is:tempdir opt/working/temp
```

This command sets the temporary directory to *opt/working/temp*. This directory must exist before you execute this command; that is, the command does not create the directory for you.

Note Do not use spaces or special characters in the UNIX path.

Logging

Installation information is recorded in the log files contained in the *ismpeLogs* folder, located at *<install dir>\ImpactServer-5_5* on Windows an in *<install dir>\ImpactServer-5_5* on UNIX.

Installing the e-Biz Impact server

You can install the e-Biz Impact server on Windows, Sun Solaris, AIX , or HP-UX.

For all installation instructions, *<install dir>* refers to the default installation directory.

- On Windows, the default is *C:\Sybase* if you have other Sybase products installed. You must have administrative rights to install the e-Biz Impact server on a Windows system.

- On UNIX, the default is */opt/Sybase*. You must have write permission for the specified installation directory. When installing on UNIX, do not use spaces or special characters in the path.

If the installation directory does not exist, you can create the directory, or the installer will create the installation directory when installation begins. If you get a memory error while installing, you may need to adjust your temporary directory location (see "Temporary installation directory" on page 11).

Installing the e-Biz Impact server using the InstallShield wizard

These installation instructions assume you are logged in, with administrative rights, to the system on which you want to install the e-Biz Impact server.

When installing on UNIX, it is best to perform the installation directly on the target machine in the Common Desktop Environment (CDE) single-window mode.

❖ **Installing the e-Biz Impact server**

1 Insert the e-Biz Impact Server CD.

2 Start the installer.

Windows If your machine is configured to automatically run from the CD, InstallShield Wizard automatically starts.

If your machine is not configured to automatically run from the CD:

a Select Start | Run.

b In the Run dialog box, browse to locate the setup file:

```
<CD drive>:\setup.exe
```

c Click OK. The Installer window appears.

Solaris If you are using the Solaris automounter and insert the e-Biz Impact Server CD multiple times, the CD might be mounted with a hash mark and number suffix (for example, the first time you mount the CD, it is */cdrom/sybasecd*, and the second time, */cdrom/sybasecd#1*). The JRE does not run from a path that contains a hash mark, so you must either restart the system prior to installing, or run the following command as "root":

```
rm /vol/dsk/*
```

a   Mount the CD. For example:

```
mount -v cdrfs -o ro /dev/cd0/cdrom
```

b   Set the IP address.

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd /mnt_point
```

d   Start the installer:

```
%./setupSolaris.bin
```

The Installer Welcome window appears.

AIX If you are using IBM AIX:

a   Mount the CD. For example:

```
mount -v cdrfs -o ro /dev/cd0 /cdrom
```

b   Set the IP address:

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd /mnt_point
```

d   Start the installer.

```
%./setupAIX
```

The Installer Welcome window appears.

HP-UX

a   Mount the CD.

Some of the files that are being installed might have names longer than 31 characters or have mixed-case file and directory names, so enter the following mount commands:

```
nohup pfs_mountd &
nohup pfsd &
pfs_mount <cd device> /mnt_point
```

b   Set the IP address:

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd /mnt_point
```

d   Start the installer:

```
%./setupHP11.bin
```

3   In the Welcome window, click Next.

4   In the next window, select the appropriate geographic location from the drop-down list. The agreement appears in the appropriate language.

5   Read the agreement, accept I Agree, then click Next.

6   In the window where you select the installation directory, specify an installation directory.

  a   To accept the default directory, click Next.

  b   To use a different directory, click Browse, select the directory, and click Next.

> **Note** For optimum performance, install all Sybase products into the same directory.

  The installation summary window displays the products to be installed and the approximate required disk space.

7   Click Install. The installation summary window displays a progress bar showing the installation's status.

> **Note** If a temp space error appears, click Cancel. Refer to "Temporary installation directory" on page 11. Verify you have enough space, then restart the installation.

8   Click Finish when the message telling you the installation was successful appears.

9   On UNIX, run chmod +x on the */bin* directory to ensure that all executables have the correct permissions.

The e-Biz Impact server application is located in the specified installation directory. Information specific to the e-Biz Impact server is located in these subdirectories:

Subdirectory	Description
/asa	Contains files required for the ASA 8.0 database, used by the e-Biz Impact Global Console and security.

Subdirectory	Description
/bin	Contains wrapper scripts to execute binaries. See the *e-Biz Impact Getting Started Guide* for more information about wrapper scripts.
/include	Contains header files required to build custom AIMs.
/ismpeLogs	Contains installation and uninstallation log files.
/NNSYCatalogues	Contains message and error files.
/j2rel.4.1_01	Java runtime environment, required for the installer.
/odbc	Contains database files.
/snmp	Contains files required to run SNMP.
/classes	Contains Java classes for e-Biz Impact.
/samples	Contains e-Biz Impact sample Java files.

Installing the e-Biz Impact server in console mode

These installation instructions assume you are logged in, with administrative privileges, to the server. After you enter the initial command, the installation automatically continues; however, you must respond to prompts.

❖ **Installing the e-Biz Impact server**

1   Insert the CD.

2   Start the installer.

Windows

a   From a command prompt, enter the following:

```
<CD drive>:\setup.exe -is:javaconsole -console
```

b   Click OK.

Solaris If you are using the Solaris automounter and insert the e-Biz Impact Server CD multiple times, the CD might be mounted with a hash mark and number suffix (for example, the first time you mount the CD, it is */cdrom/sybasecd*, and the second time, */cdrom/sybasecd#1*). The JRE does not run from a path that contains a hash mark, so you must either restart the system before you install, or run this command as "root":

```
rm /vol/dsk/*
```

a   Mount the CD. For example:

```
pfs_mount <CD DEVICE> /mnt_point
```

b   Set the IP address:

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd mnt_point
```

d   Start the installer:

```
%./setupSolaris.bin -is:javaconsole -console
```

AIX

a   Mount the CD. For example:

```
mount -v cdrfs -o ro /dev/cd0 /cdrom
```

b   Set the IP address:

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd mnt_point
```

d   Start the installer:

```
%./setupAIX -is:javaconsole -console
```

Note To display additional start-up commands for the AIX installer, enter:

```
%.setupAIX -is:help
```

HP-UX

a   Mount the CD.

Some of the installation files might have names longer than 31 characters, or have mixed-case file and directory names, so enter the following mount commands:

```
nohup pfs_mountd &
nohup pfsd &
pfs_mount <cd device> /mnt_point
```

b   Set the IP address:

```
export DISPLAY=<IP address:0.0>
```

c   To change to the */mnt_point* directory, enter:

```
%cd mnt_point
```

d   To start the installer, enter:

```
%./setupHP11.bin -is:javaconsole -console
```

3   In the installer Welcome window, press Enter.

4   Enter a directory name or press Enter to accept the default.

5   Select the products to install.

6   Select the features to install. A list of selected features displays.

7   Press Enter. The progress bar displays installation progress. As the e-Biz Impact server and shared Sybase components are installed and the uninstall scripts are created, verbose text messages are echoed to the screen. You can safely ignore these messages.

8   When you see a message saying the installation was successful, press Enter.

9   Press Finish to exit.

ODBC driver changes

e-Biz Impact version 5.5 on UNIX platforms is shipped with the UNIX ODBC driver manager, rather than the previous DataDirect ODBC driver and driver manager.

 Warning! The UNIX ODBC driver manager serves as a place holder only. Sybase does not support the UNIX ODBC driver manager, and recommends that you use the DataDirect driver and driver manager.

If you are an existing customer, continue to use the DataDirect drivers used with e-Biz Impact 5.4 or earlier.

1   Copy the *odbc.ini* file from your e-Biz Impact version 5.4 or earlier to the *ImpactServer-5_5\udbc* directory.

2   Add the ODBC library directory to your library path environment variable.

If you are a new customer, Sybase recommends you purchase the ODBC driver and driver manager from DataDirect.

1   To purchase the DataDirect ODBC drivers directly, go to the DataDirect Web site at http://www.datadirect.com.

2   Follow the instructions include with the drivers to set up and configure the DataDirect ODBC driver and driver manager.

3   Copy the *odbc.ini* file into the *ImpactServer-5_5\udbc* directory.

4   Add the ODBC library directory to your library path environment variable.

Understanding environment variables

Most environment variables are set by wrapper scripts during runtime. The environment variables required by SNMP are set by the e- Biz Impact server. After you have installed e-Biz Impact, see the *e-Biz Impact Getting Started Guide* for complete configuration information.

hese wrapper templates are provided for your operating system:

Operating system	Template name	Location
Windows	*ims_java.cmd*	*ImpactServer-5_5\bin*
UNIX	*ims_java*	*ImpactServer-5.5/bin*

To use the new Java component of e-Biz Impact, you must edit the wrapper template provided to set JAVA_HOME on Windows or JVM_ROOT on UNIX to the location of your Sun Java SDK 1.4.2 or later directory.

CHAPTER 3

Uninstalling e-Biz Impact

This chapter explains how to uninstall e-Biz Impact. This information pertains only to version 5.5. To uninstall an earlier version, you must use the uninstaller provided with that version. Call Technical Support for instructions on uninstalling a version earlier than 5.5.

Uninstalling the e-Biz Impact client

1   Move custom files or any other files that you want to save from the *ImpactClient-5_5* directory to another directory.

2   Select Start | Settings | Control Panel, then select Add/Remove Programs.

3   When the Add/Remove Programs window opens, select the e-Biz Impact client and click Change/Remove.

4   The e-Biz Impact client uninstaller launches. In the uninstaller Welcome window, click Next.

5   In the next window, select the features you want to uninstall. All features are selected by default. Click Next.

6   The summary window displays the features that are going to be uninstalled. Click Uninstall.

7   A progress bar shows the progress of the uninstallation.

> **Note** If you have modified any files since installation, you receive pop-up windows asking if you want to remove the modified files. Click Yes to All.

8   Click Finish when the Uninstall Complete window appears.

9   Manually delete the remaining *ImpactClient-5_5* directory by deleting the root installation directory and all subdirectories and files.

Uninstalling the e-Biz Impact server

This section explains how to uninstall the e-Biz Impact server on Windows and on UNIX.

❖ **Uninstalling the e-Biz Impact server on Windows**

1   Move any files that you want to save from the *ImpactServer-5_5* directory to another directory.

2   Remove any services you created with ims55svchost utility using the -remove option.

3   Select Start | Settings | Control Panel, then select Add/Remove Programs.

4   When the Add/Remove Programs window opens, select the e-Biz Impact server and click Change/Remove.

5   When the e-Biz Impact installer opens, follow the instructions until the uninstallation completes.

> **Note** If you have modified any files since installation, you receive pop-up windows asking if you want to remove the modified files. Click Yes to All.

6   Click Finish when the Uninstall Complete window appears.

7   Manually delete the remaining *ImpactServer-5_5* directory by deleting the root installation directory and all subdirectories and files.

❖ **Uninstalling the e-Biz Impact server on UNIX**

1   Move any files that you want to save from the *ImpactServer-5_5* directory to another directory.

2   In a terminal window, set the DISPLAY variable. For example:

```
$ export DISPLAY=10.20.73.61:0.0
```

3   In the same terminal window, go to the e-Biz Impact installation directory, then enter:

```
cd <install_dir>/ImpactServer-5_5/Uninstall
```

4   When the e-Biz Impact installer opens, follow the instructions until the uninstallation completes.

5   Click Finish when the Uninstall Complete window appears.

6   Manually delete the remaining *ImpactServer-5_5* directory by deleting the root installation directory and all subdirectories and files.

Note Enter ls -a at the prompt to see directories preceded by a dot.

Reinstalling e-Biz Impact

1   Verify that the installation directory exists and is empty.

2   Follow the instructions in Chapter 1, "Installing the e-Biz Impact Client" to reinstall the e-Biz Impact client.

3   Follow the instructions in Chapter 2, "Installing the e-Biz Impact Server" to reinstall the e-Biz Impact server.

Upgrading e-Biz Impact

This chapter provides the information required to migrate your current
e-Biz Impact implementation to e-Biz Impact 5.5.

Overview

Note e-Biz Impact version 5.4.5 introduced significant functional
changes. If you are upgrading to e-Biz Impact version 5.5 from a version
prior to 5.4.5, pay close attention to this chapter.

To provide a clean and intuitive migration from earlier versions of e-Biz
Impact, the msgsrv and v2sfm applications have been maintained in e-Biz
Impact 5.5. Although the internal dynamics of these applications have
changed, the external functionality remains the same. The B/SM-based
msgsrv has been replaced with an ODL server application, ODLSRV, and
you can migrate the ODL code with few changes. The B/SM-based v2sfm
is replaced by a Store and Forward Manager (SFM) application. Both of
these applications run under the new e-Biz Impact bus, which runs within
one of two new executables—a controller application launched by a new
e-Biz Impact manager (cluster) application, or an application launched
directly from the command line.

A new custom code framework allows you to migrate custom C\C++ AIMs to the new bus plug-in architecture; however, in some instances, it may not be feasible to convert a custom AIM to run under the bus. In that case, you can continue to run the AIMs under a B/SM version of e-Biz Impact or as a single plug-in application in a dedicated bus.

Monitoring is handled by the Global Console, a Microsoft Management Console (MMC) snap-in, that displays a tree of all e-Biz Impact applications. Each tree node provides different views to give a comprehensive look at the entire e-Biz Impact environment. As states change, you are notified by obvious color and graphical changes that quickly give focus to a problem area. There is a view of the SFM node that duplicates the functionality of the previously used 4.x Sfmcon.

e-Biz Impact 5.5 configuration uses the Configurator MMC snap-in. This configuration GUI takes the place of the version 4.*x* configuration files. All the information that was in the *linktab*, *bsmtab*, *sfm.cfg*, and the *cl7archive* is now configured in this simple point and click tool. All configuration files for e-Biz Impact 5.5 are generated by the Configurator snap-in.

Some limitations of the B/SM version of e-Biz Impact are addressed in version 5.5:

- Multiple instances and multiple versions of e-Biz Impact 5.5 can run simultaneously on the same server. A version 5.4.5 instance (cluster) is defined as one e-Biz Impact manager with one or more controllers.

- An instance can also be a single execution of the application.

- You can continue to run a single instance per server of a B/SM-based e-Biz Impact.

- The need to run as "root" on UNIX has been eliminated.

- The 64K Distributed Function Call (DFC) limit has been eliminated.

Performing the upgrade

Note Sybase has made changes to the ODBC driver and ODBC driver manager shipped with the e-Biz Impact 5.5 release. For more information on these changes and how to upgrade the driver, see "ODBC driver changes" on page 18 before you upgrade to e-Biz Impact 5.5.

To upgrade e-Biz Impact to version 5.5, you must perform these tasks in this order:

• Install e-Biz Impact using the installation instructions for your platform. See Chapter 1, "Installing the e-Biz Impact Client"and Chapter 2, "Installing the e-Biz Impact Server."

Note You can install e-Biz Impact version 5.5 over the previous version or in a different directory. Regardless, backup your clusters, production objects, and so on before you install version 5.5.

• Migrate your AIMs using the instructions in Migrating AIMs below.

• Delete the earlier version installation.

Note Your previous and current installations can co-exist, but Sybase does not recommend this.

Migrating AIMs

There are two basic types of AIMs—ODL and custom (C\C++- or Java-based), and two types of ODL-based AIMs—msgsrv and animsrv. TCP and DB AIMs are msgsrv-derived AIMs, as well as Sybase Web-VA Servers. This migration task requires that you closely examine the ODL code written for your AIMs.

Animation AIMs (animSrv) continue to run under B/SM (e-Biz Impact 4.1). To pass data between e-Biz Impact 4.1 and e-Biz Impact 5.5, use two TCP/IP-based message AIMs.

Customs AIMs (C- or Java-based) are supported in e-Biz Impact 5.5, but some changes may be necessary to migrate C-based AIMs. e-Biz Impact 5.5 no longer supports C-based AIMs that are not thread safe. In many cases, the functionality that required a C-based AIM can now be handled by an ODL AIM, making the support of C code unnecessary. For example, you can use the Open Transport ODL object to interact with IBM WebSphere MQ.

Message AIMs

ODL changes

Table 4-1 lists changes in ODL objects, their methods, and functions.

Table 4-1: ODL object changes

Method	Use	Comments
Combine	Calls a production object to create the DFC wire format from datalinks.	Production pair calls are now obsolete. Instead, use function entry method for DFC.
Explode	Calls a production object to set datalinks based on the DFC wire format.	Production pair calls are now obsolete. Instead, use function entry method for DFC.
fret	Sets the return value and output wire format for a DFC call.	Production pair calls are now obsolete. Instead, use function entry method for DFC.
clDfcOpen (C-based)	Opens a client connection to B/SM.	Obsolete.
clDfcClose (C-based)	Closes a client connection to B/SM.	Obsolete.
clDfcNoblock	Sets up nonblocking DFC for the next DFC call. Returns the DFC Msg ID that will be used.	Nonblocking DFC is no longer supported.
clDfcWait (ODL)	Sets the DFC Msg ID for which to wait.	Nonblocking DFC is no longer supported.
clDfcPoll	Checks for a completed DFC Msg ID.	Nonblocking DFC is no longer supported.
clDfcIgnore (C-based equivalent)	Causes a DFC MSG ID to be ignored.	Nonblocking DFC is no longer supported.
clDfcGetLogin (C-based equivalent)	Gets the CAI-Net workplace login name.	Obsolete.
clDfcGetRefid (there are C-based equivalents)	Gets the CAI-Net workplace reference ID.	Obsolete.
clFile,GetCwd( )	File object method.	Changed to new ODL function getCwd().
clFile, mkAbsolute( )	File object method.	Obsolete.
submitFile	Submits a file to SFM.	SFM no longer supports file objects.
sfmCurrInfile	Get the current SFM file object properties.	SFM no longer supports file objects.
clFile.buildFileFromLog	Used after a call to sfmCurrInfile to re-create a file objects based on the one passed to SFM.	SFM no longer supports file objects. Use an ODL AIM to parse the file into individual transactions.
WriteQueue (used with NAP in the past)	Writes a message to a queue.	Functionality replaced in v. 5.4.5 by an OT-enabled ODL object, clot.

Method	Use	Comments
suspendDFC	Suspends a DFC in an ODL AIM.	Replaced by clSuspend.
releaseDFC	Releases a DFC in an ODL AIM.	Replaced by clRelease.
DFC error methods		Replaced by clGetDfcErrno( ) and clGetErrmsg( ).

DFC changes

The primary DFC changes are:

* 64K message size limit removed, negating the need for DFC file objects.

* File objects are not supported in DFC, but are still supported in ODL.

* Nonblocking DFC is not supported.

* The explode and combine functions are no longer supported. If your bsmtab application record in version 4.1 reads: A: appname...msgsrv project.prf -d:. If the -d is not included, more migration work is required.

If you use file objects within route_recx calls to the SFM, remove the argument from the call. If you are receiving file objects in the servproc call from SFM, remove the file object argument from the function. For information on the route_recx and servproc calls, see the *ODL Application Guide*.

Migrating ODL-based message AIMs

Acquisition AIMs

Earlier versions of e-Biz Impact automatically started the protocol object with the required name of protomain. The name requirement has been removed, so now you must start the protocol object using the clinit() function:

```
erm( "connector::clinit() begin");  //optional
proto1.start();       //start the protocol object
erm( "connector::clinit() end");  //optional
return 1;
```

You must also add comm.kill(), where comm is your communication object name, in your cldeinit() call, to prevent a comm event from occurring after disabling an application. The comm object can also activate the closeflow object if a connection attempt fails. This differs from earlier versions in that the closeflow occurred only if an existing connection was broken.

Remove *clfile* object   Earlier versions of e-Biz Impact passed file objects through DFC. With e-Biz
                          Impact 5.4.5 and higher, the 64K data size limit has been removed and the need
                          to pass the file object through a DFC no longer exists. If any acquisition AIMs
                          contain the DFC call route_recx, you must remove the file object from the
                          argument list:

1 Launch MSG-IDE.

2 Open the acquisition project that contains route_recx.

3 Select Distributed Function from the left pane.

4 Double-click the route_recx function listed in the right pane.

5 Scroll down the argument list and click clfile.

6 Click Delete.

7 Click OK.

8 Remove the clFile object from route_recx calls in all functions.

Delivery AIMs

Remove the clFile objects from the servproc() functions, then change
`*ErrText` to be an `[out]` variable, as shown in Figure 4-1.

Figure 4-1: servproc() definition changes
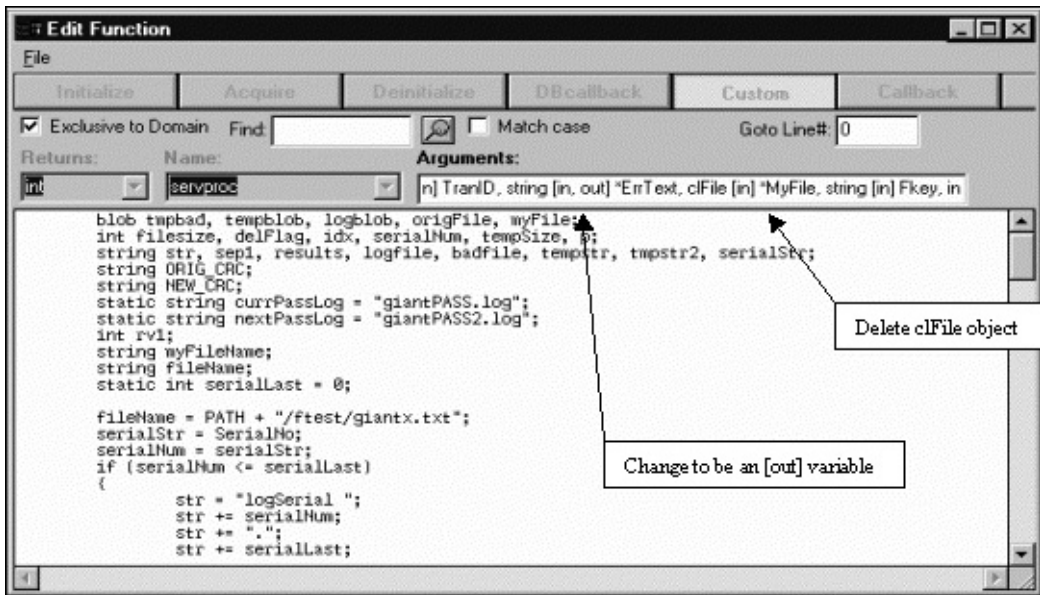
Migrating AIMs from use of *explode* and *combine*

The use of explode and combine for DFC packaging has been eliminated in version 5.5. Therefore, you must convert AIMs to handle the new model.

Conversion requires that you reenter code for the DFC entry points to have the full argument list. The following shows before and after examples of servayt() and servproc().

1   For servayt(), change:

```
char[out] Stat[13]);
```

 to:

```
string[out] *Stat)
```

2   For servproc(), change:

```
char [in,out] SerialNo[13]
```

to:

```
string [in.out] *SerialNo;
```

Change:

```
char [in] SRCRef[33]
```

to:

```
string [in] SRCRef;
```

Change:

```
string [in.out] *ErrText
```

to:

```
string [out] *ErrText
```

Sybase recommends that you do not use clQuit() in e-Biz Impact 5.5. In earlier versions, clQuit was typically used to shut down the delivery AIM when the clpipe connection was lost. In version 5.5, use the restart method on the communication object to restore the lost connection by setting a brief timer in the closeflow, and call the restart method when the timer fires.

See the *e-Biz Impact ODL Guide* for information about using these methods.

C-based AIMs

> **Note** All threads and libraries loaded in e-Biz Impact 5.5 must be thread safe. AIMs are now created as libraries rather than executables. Verify the thread safety of any third-party libraries linked with old AIM code.

All global data must exist within an allocated structure so that a pointer to the structure can be saved. Because AIMs are now created as libraries, you must use the NIDL stub-generator to generate new wrapper code.

The signature for erm and ermdmp has changed. The function ermset has been removed.

Migrating C-based AIMs

All C-based AIMs created with version 4.*x* e-Biz Impact require modification, depending on how they were written. First, make the AIM thread safe, then remove any global or static variables:

```
struct globalStuff
{
    int debugFlag;
    char* staticVar;
};
```

C-based AIMs change from executables to shared libraries or DLLs. You can continue to define your own DFC functions in an IDL file along with other mandatory functions. Include the implementation of these functions in a C file. This C code file, along with the two C++ and two header files generated by the stub code generator, are used to build the bus application library. See the *e-Biz Impact Application Guide* for more detailed information about using the code generators for shared libraries and C-based AIMs.

Note See the *e-Biz Impact Configurator Guide* for more detailed information about configuring custom applications in e-Biz Impact 5.5.

Animation AIMs

animSrv AIMs run under e-Biz Impact 4.1 and can be bridged to e-Biz Impact 5.5 using TCP/IP AIMs. See "Bridging versions 4.1 and 5.5" on page 36.

Migrating SFMs

The SFM no longer stores or builds file objects from log files. Datalinks for production objects should not store data between the qualification and translation phases. You must reenter all configuration information into the e-Biz Impact 5.5 Configurator.

Migrating the SFM configuration file

The SFM configuration file is generated and maintained by the Configurator.

e-Biz Impact 5.5 SFM configuration files updates include:

- logfile and uroutes entries are now made on the Logs tab.

- idedir is now set in the Project field.

- tbldir is set in the Table field.

- prod records are now in the Production Object list on the Routing tab.

- tran records are now in the Routes list on the Routing tab.

- dest records are now in the Destinations list on the Routing tab. A flavor of zero (0) no longer indicates a null destination. Rather, you select null from the Type drop-down list when configuring Destinations in the Configurator.

See the *e-Biz Impact Configurator Guide* for information about configuring SFM applications.

bsmtab and *linktab*

In e-Biz Impact version 4.1 and earlier, the environment was defined within a file called *bsmtab*. In version 5.4.5 and later, bsmtab and linktab information is a combination of an XML file and appropriate configuration files for each defined application. Linktab information is not directly migrated to 5.5, but TCP/IP and TTY connection information (formerly found in the linktab) is now entered on the ODL properties page. See the *e-Biz Impact Configurator Guide* for more information about defining ODL application resources in the Configurator.

SFM specifics are shown below:

```
#
#Replace 2000 with host number for the box you are
working on
#Make sure the path for bench.cfg and pmdest.prj are
correct
#In D: records, replace psfm and pdel with your ACs for
your SFM and dest
#
A:perfsfm:100:c:0:2:v2sfmd32,c,\cnet:v2sfmd32.exe ttt
u f 0 p d1
\usr2\cnet\Ofwr.sys\tdm\trn\bench\bench.cfg -f23:
F:route_recx,23,0:perfsfm:0:2000::50:
F:route_vrec,23,0:perfsfm:0:2000::10:
F:router_request,23,0:perfsfm:0:2000::10:
```

```
F:retry_pulse,23,0:perfsfm:0:2000::0:
#
A:perfdest:15:c:0:2:msgsrv32,c,\cnet:msgsrv32.exe
\usr2\cnet\Ofwr.sys\tdm\trn\bench\del\pmdest.prj -d:
F:servayt,23,0:perfdest:0:2000::50:
F:servproc,23,0:perfdest:0:2000::50:
#
D:qcntpc11::0:lsm32,c,\cnet\bsm:lsm32.exe:
R:perfdest:1:1:
R:perfsfm:1:1:
#
#
#
```

Migrating command line clients

To ensure that implementations across Windows and UNIX are uniform, command line clients are now implemented as acquire plug-ins. To migrate, the code must be made thread safe, and converted to a DLL for Windows or a shared library for UNIX. command line clients are subject to the same changes for C-based AIMs for API signature changes of erm and ermdmp. These calls are no longer necessary with the conversion to an acquire plug-in:

• cl_cmdline_init

• cl_cmdline_quit

• dfcOpen

• dfcClose

You must use the Configurator to generate a configuration file for the command line acquire application.

Bridging versions 4.1 and 5.5

To bridge e-Biz Impact version 4.1 and version 5.5, use two TCP/IP message AIMs, one running in 4.1, and one running in 5.5. Connect the 4.1 message AIM to the 5.5 message AIM, depending on the intended destination of the DFC. For example, to send a DFC from version 4.1 to 5.5, execute the call from 4.1, connect the 4.1 AIM to the 5.5 AIM, and configure 5.5 as the listener.

To enable bidirectional communication, set up four AIMs, two in version 4.1 and two in version 5.5. In each version, configure one AIM to connect to the listener in the other version. Configure the second AIM in each version to listen for the AIM in the other version to connect.

Migrating from e-Biz Impact 5.3

Change your PATH environment variable to reflect using the version 5.5 *bin* directory instead of version 5.3. You may have to do this in various scripts that you developed or in an environment specification; for example, *profile*, *login*, or Windows user configuration.

Load current clusters into the Configurator to update them. Then save the cluster and deploy it. See the *e-Biz Impact Configurator Guide* and the *Getting Started Guide* for more information on loading existing cluster information.

Table 4-2: Wrapper name changes

e-Biz Impact 5.3	e-Biz Impact 5.5
ims	No change
ims.cmd	No change
ims.nt.cmd	No change
db	*ims.db*
nn	*ims.nn*
setsrdir	*ims.setsrdir*
setsrports.csh	*ims.setsrports.csh*
setsrports.sh	*ims.setsrports.sh*
sr	*ims.sr*
db.cmd	*ims.db.cmd*
nn.cmd	*ims.nn.cmd*
setsrdir.cmd	*ims.setsrdir.cmd*
setsrports.cmd	*ims.setsrports.cmd*

e-Biz Impact 5.3	e-Biz Impact 5.5
sr.cmd	*ims.sr.cmd*

Index

A

Adaptive Server Anywhere documentation   ix
Authorization Console   1

C

changes, DFC   28
changing the temporary installation directory   5
conventions   xi

D

DFC changes   28
disabling the SNMP Service   5
disk space requirements
   e-Biz Impact client   2
   e-Biz Impact server   11
documentation
   Adaptive Server Anywhere   ix
   e-Biz Impact online   vii

E

Event Monitor   1

G

Global Console   1

I

installation environment, preparing   5
installing
   Microsoft SNMP Trap Service   4

installing required software   3

M

Microsoft SNMP networking option   3
migrating
   acquisition AIMs   29
   C-based AIMs   33
   command line clients   35
   from e-Biz Impact 5.3   36
   message AIMs   27
   SFMs   33

O

ODL changes   27

P

preparing the installation environment   5

R

reinstalling e-Biz Impact   23
related documentation   vii

S

services
   installing Microsoft SNMP Trap   4
SNMP
   installing Microsoft Trap Service   4
SNMP Service
   disabling   5