

SYBASE®

Feature Guide

e-Biz Impact

Version 5.4.5

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Contents

About This Book	v	
CHAPTER 1	New Functionality	1
	Java support.....	1
	Remote access.....	2
	Plug-in access	3
	Web services support.....	4
	Secure TCP support.....	4
	Event Monitor	4
	Setting up event monitoring.....	6
	Using the Event Monitor	6
	Shared memory.....	7
CHAPTER 2	Updated Functionality	9
	Authorization Console	9
	Configurator	9
	Default working directory.....	10
	ODL application resource tohost/fromhost file limit	10
	SFM Sync Write, Availability options.....	11
	Application property DFC Availability option and Notes tab	11
	Application property Routing tab and destinations	11
	Cluster detail view	12
	Updated drag, drop, cut, and paste functionality	12
	Global Console.....	13
	Resending completed transactions	13
	Resending multiple unroutable transactions	15
	sfmlog utility options.....	15
	BIDL utility	15
CHAPTER 3	e-Biz Impact 5.4 Features	17
CHAPTER 4	Documentation Additions and Updates	21

- General changes 21
- Authorization Guide..... 22
- Command Line Tools Guide 22
 - SNMP port specification 22
 - NNCrypt, NNGetmsg, and NNPutmsg 22
- Java Support for e-Biz Impact..... 23
- MSG-IDE Guide 23
- Monitoring e-Biz Impact 24
- ODL Guide 24
- TRAN-IDE Guide..... 24

CHAPTER 5 Resolved Problems 25

- Authorization Console 25
- Bus (Impact Manager)..... 26
- c!Dbi 26
- CNC 27
- Configurator 27
- DFCs 28
- e-Biz Impact server 28
- Global Console..... 29
- Installer..... 30
- MQAcq 30
- MQDel 31
- MSG-IDE 31
- ODL..... 31
- SFM..... 31
- TRAN-IDE 32

Index33

About This Book

Audience

This book is for applications developers, and system and application administrators who use e-Biz Impact version 5.4.5.

How to use this book

This book contains these chapters:

- Chapter 1, “New Functionality,” describes new features in e-Biz Impact version 5.4.5.
- Chapter 2, “Updated Functionality,” describes updated functionality in e-Biz Impact version 5.4.5.
- Chapter 3, “e-Biz Impact 5.4 Features,” describes features added in e-Biz Impact version 5.x, previous to version 5.4.5.
- Chapter 4, “Documentation Additions and Updates,” describes additions and updates to the e-Biz Impact core documentation.
- Chapter 5, “Resolved Problems,” list the bugs that have been fixed in this version of e-Biz Impact.

Related documents

e-Biz Impact documentation The following documents are available on the Sybase® Getting Started CD in the e-Biz Impact 5.4.5 product container:

- The e-Biz Impact installation guide 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 5.4.5 SyBooks CD:

- The *e-Biz Impact Application Guide* provides information about the different types of applications you create and use in an e-Biz Impact implementation.
- The *e-Biz Impact Authorization Guide* explains how to configure e-Biz Impact security.

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- *e-Biz Impact Command Line Tools Guide* 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* (this book) describes new features, documentation updates, and fixed bugs in this version of e-Biz Impact.
 - The *e-Biz Impact Getting Started Guide* provides information to help you become familiar with e-Biz Impact.
 - The *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 5.4.5.
 - 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.
 - 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 ODL 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.

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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.

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- 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. Enter user name and password information, if prompted (for existing Web accounts) or create a new account (a free service).
- 3 Select a product.
- 4 Specify a time frame and click Go.
- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Conventions

The syntax conventions used in this manual are:

Key	Definition
commands and methods	Command names, command option names, utility names, utility flags, Java methods/classes/packages, and other keywords are in lowercase Arial font.

Key	Definition
<i>variable</i>	Italic font indicates: <ul style="list-style-type: none"> • Program variables, such as <i>myServer</i> • Parts of input text that must be substituted, for example: <pre data-bbox="897 383 1040 406">Server.log</pre> • File names
File Save	Menu names and menu items are displayed in plain text. The vertical bar shows you how to navigate menu selections. For example, File Save indicates “select Save from the File menu.”
package 1	Monospace font indicates: <ul style="list-style-type: none"> • Information that you enter in a graphical user interface, at a command line, or as program text • Sample program fragments • Sample 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.



New Functionality

This chapter describes new functionality in e-Biz Impact version 5.4.5, and points to complete details on using each new feature.

Topic	Page
Java support	1
Event Monitor	4
Shared memory	7

Java support

The Java support available in e-Biz Impact version 5.4.5 provides customers with a practical way to interact with e-Biz Impact from a Java application.

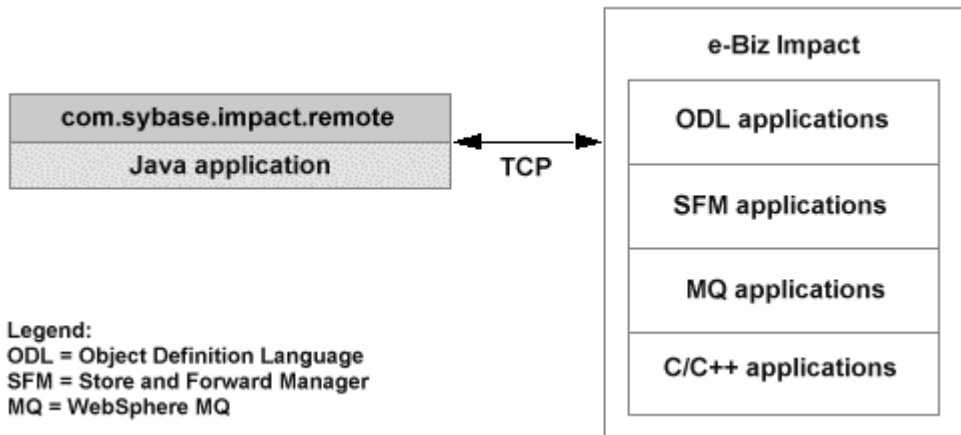
Note See *Java Support for e-Biz Impact* on the e-Biz Impact SyBooks CD that comes with the product for more information.

The Java support provided in this version includes:

- Remote access to e-Biz Impact from an external Java process. See “Remote access” on page 2.
- Support for Java plug-in applications hosted directly by the e-Biz Impact runtime engine. See “Plug-in access” on page 3.
- Web services support provides for Java application interoperability with SOAP calls. See “Web services support” on page 4.
- Support for secure or standard TCP connections. See “Secure TCP support” on page 4.

Remote access

Remote access for e-Biz Impact is a set of Java classes that allow an external Java application to exchange distributed function calls with Object Definition Language (ODL) applications powered by a remote e-Biz Impact runtime engine.



Java applications that use the Java remote method can:

- Extend native J2EE services to e-Biz Impact
- Collect transaction data from a Web application and send the transaction into an e-Biz Impact SFM application
- Automate e-Biz Impact command and control (CNC) requests performed natively in Java
- Receive function calls from e-Biz Impact for transaction delivery to Java applications

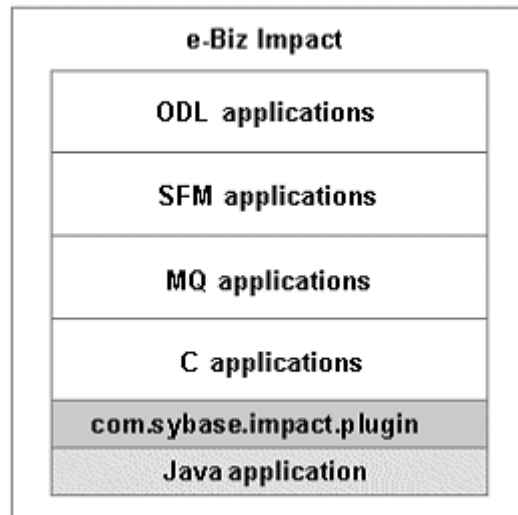
Plug-in access

The Java plug-in is a set of Java classes that allow a Java application or plug-in to be hosted within e-Biz Impact runtime engine threads.

Note When you run Java plug-in applications, run the cluster with the same version of JVM that you used to compile your plug-in applications, and keep the JVM and JDK versions in sync.

For example:

- Classes compiled with JDK 5 do not run properly if the cluster is started with JVM client version 1.4.
 - Classes compiled with JDK 5 run properly if the cluster is started with JVM client version 5.
 - Classes compiled with JDK 1.4 run properly if the cluster is started with JVM client version 1.4.
-



Configure and securely control the Java application using these e-Biz Impact tools:

- Configurator
- Global Console
- Authorization

Java applications that use the Java plug-in method can:

- Extend native Java 2 Platform, Standard Edition (J2SE) services to e-Biz Impact
- Enable Web services access to and from e-Biz Impact
- Receive and distribute transactions through Secure Sockets Layer (SSL)

See *Java Support for e-Biz Impact* for instructions on configuring and using Java support.

Web services support

e-Biz Impact 5.4.5 also provides sample bridge templates that demonstrate how to have Java-based acquisition and delivery AIMs (the modules that deliver or receive data to and from a Store and Forward Manager) interoperate with SOAP calls.

See *Java Support for e-Biz Impact* for details and sample templates.

Secure TCP support

e-Biz Impact version 5.4.5 provides secure or standard (plaintext) socket communication using support classes that are included in the `com.sybase.impact.tcp` package.

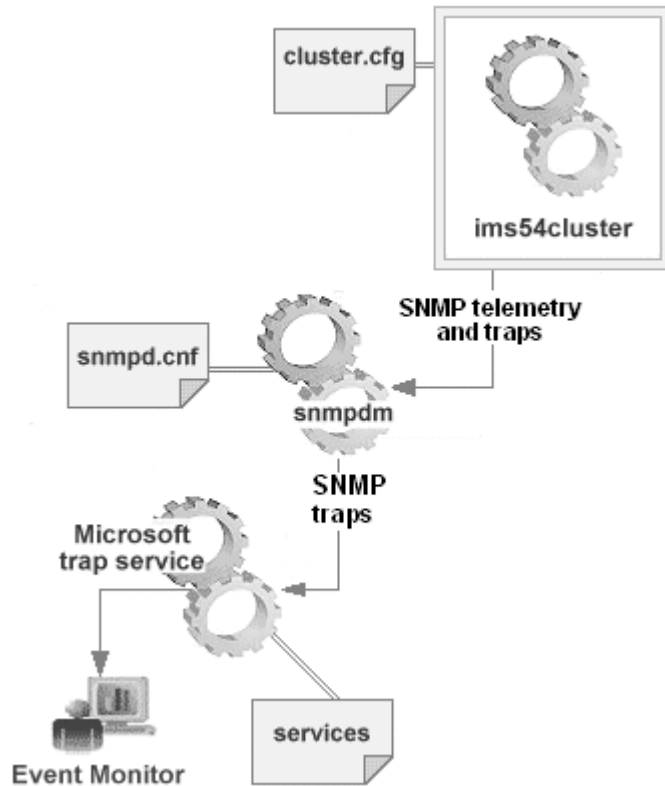
See *Java Support for e-Biz Impact* for details and code samples.

Event Monitor

The Event Monitor—a Microsoft Management Console (MMC) snap-in—allows you to view Simple Network Management Protocol (SNMP) traps. SNMP traps enable an agent to notify the Event Monitor of significant events by way of an unsolicited SNMP message.

The Event Monitor displays events collected from one or more e-Biz Impact servers. These events are triggered by e-Biz Impact and provide information, warnings, or errors that occur at runtime. The Event Monitor gathers trapped event messages through the Microsoft SNMP Trap Service on Win32 workstations.

Figure 1-1: Event Monitor



The Event Monitor is installed on Windows as part of the e-Biz Client 5.4.5 installation, which copies the files into the `\Sybase\ImpactClient-5_4\EventMonitor` directory.

Setting up event monitoring

Monitoring cluster events requires several configuration steps. Which steps are necessary depends on whether you want to publish traps to a custom port:

- 1 Install the Microsoft SNMP Trap Service.
- 2 Disable the SNMP Service.
- 3 Configure the SNMP EMANATE Master Agent service. This step is necessary only if you are sending traps to a custom port.

Using the Event Monitor

Note The Event Monitor runs only on Windows systems.

Once you configure your system to support the Event Monitor, you start the utility:

- 1 Select Start | Programs | Sybase | e-Biz Impact 5.4 | Event Monitor.
- 2 When the Event Monitor console displays, right-click e-Biz Impact 5.4 Event Monitor in the tree view, and select Start.

This action starts the receipt of SNMP traps and allows you to create an optional filter to display all received events received. The console checks to see if the SNMP trap service is missing or disabled.

- 3 Select the All Events node. Events display in the right pane.
- 4 Double-click an event to see its entire content.

On the e-Biz Impact SyBooks CD that comes with the product, see *Monitoring e-Biz Impact*, Chapter 4, “Monitoring e-Biz Impact Events” for complete information.

Shared memory

e-Biz Impact version 5.4.5 introduces “shared memory,” which is transparent for end-users. Shared memory affects how distributed function calls (DFCs) are sent from one application to another, and from one controller to another.

Prior to e-Biz Impact version 5.4.5, interprocess communication used TCP sockets, which required one TCP port per controller.

e-Biz Impact shared memory:

- Retrieves memory regions from the operating system
- Grants access by consumer or server threads to one or more memory regions (for example, one application calls other application using a standard DFC)
- Protects memory regions for concurrent access using an elaborate system of semaphores and thread queues
- Distributes access to shared memory regions by prioritizing the regions used most frequently

Shared memory architecture is similar to print spoolers. Access to a resource is made on a first come, first serve basis. Each request is queued until a resource is made available for it, then the request receives dedicated access to the shared memory region.

Benefits of shared memory include:

- Internal TCP port requirements are removed. Only one port is required for external communication.
- Solutions are more scalable. Controller memory footprint is smaller and its size is controlled. Controller memory no longer increases as more controllers and applications are added to the same cluster.
- Data transfer between controllers is faster because it no longer requires TCP handshaking.
- Controllers can exchange larger DFCs with other controllers because the DFC is no longer limited by the socket capacity.

- Better thread management by the controller for communication with client applications in other controllers. Prior to e-Biz Impact version 5.4.5, a controller could allocate up to one thread for each function call external to the controller. This led to excessive thread use and could cause controllers to fail when exceeding tunable thread limits.

Note Because shared memory requires no user configuration or interaction, this functionality is not discussed in any other e-Biz Impact documentation.

Updated Functionality

This chapter describes e-Biz Impact functionality that has been updated in version 5.4.5.

Topic	Page
Authorization Console	9
Configurator	9
Global Console	13
sfmlog utility options	15
BIDL utility	16

Authorization Console

The Authorization Console has been updated with:

- Advanced drag-and-drop features
- Icons changes for command groups
- Auto-upgrade functionality that looks for deprecated and missing commands
- Multiple cluster support in the same security database
- Enhanced import wizard cluster search

See the *e-Biz Impact Authorization Guide* for details.

Configurator

This section describes updated Configurator functionality.

Default working directory

The Configurator is a snap-in to the Microsoft Management Console. When you open the Configurator, “e-Biz Impact 5.4 Configurator” displays in the tree view.

The working directory is the location in which new clusters are created, loaded, and saved.

The current working directory displays on the console’s status bar. To change the working directory, right-click the e-Biz Impact 5.4 Configurator node and select All Tasks | Set Working Directory. Use the Browse for Folder dialog box to select the location where you want new clusters to be saved, then click OK.

When clusters are loaded in the Configurator, select the e-Biz Impact 5.4 Configurator node to see the working directory for each loaded cluster. The Files Location column in the right pane shows the directory in which each cluster has been loaded and saved, which may be the same or different than the default working directory for new clusters.

The status bar always shows the default working directory.

ODL application resource *tohost/fromhost* file limit

An ODL application instance runs within a thread in an e-Biz Impact controller. A controller can contain multiple applications, as well as multiple instances of an application.

Note Before or after configuring an ODL application, you must create the actual ODL, C/C_++, or Java code for acquisition and delivery AIMs. The resulting files are referenced in the ODL configuration.

When you add a new ODL application to a controller, you configure that application in the ODL Properties window.

When you add a new ODL communication protocol resource (on the ODL Properties Advanced tab), you select Tohost/Fromhost to create a file that records all data going into the endpoint application and all data coming out. These fields have been added:

- Tohost/Fromhost Limit – specifies the file size limit (in kilobytes). There is no predefined limit, but the default setting of 10,000 is designed to provide a useful log file without using too much disk space.

- Tohost/Fromhost Depth – the number of copies of the log file that e-Biz Impact maintains. The default setting of 2 indicates that e-Biz Impact creates an additional file when the main activity log reaches its maximum size. If the second file reaches the limit, e-Biz Impact rolls back to the first file, overwriting the content.

SFM Sync Write, Availability options

When you add or modify SFM properties, the Log Files tab in the Properties window has a Sync Write option. When this option is selected, the SFM is instructed to open the log file with options that cause the write() function to block further processing until the data is physically on the disk.

Use this option only when your UNIX system does not have UPS backup, or is prone to panic traps.

The SFM General tab also has an Availability option that lets you define when the SFM can receive data. This parameter works on all distributed function calls (DFCs) used as entry points by acquisition AIMS such as route_recx.

Application property DFC Availability option and Notes tab

When you add or modify an ODL or Java application in the Configurator, the Properties window has an Availability option on the DFC tab. This option lets you define when the application can receive data. This parameter works on all distributed function calls used as entry points by acquisition AIMS such as route_recx.

ODL, SFM, Java, MQAcq, and MQDel application property windows also include a new Notes tab that lets you add optional notes about, as well as clusters, and local and remote controllers.

Application property Routing tab and destinations

When you add or modify a destination for an application (SFM or AIM) in the Configurator by selecting the Routing tab on the SFM Properties window, the Destination Info window allows you to create alerts for the selected destination. See the *e-Biz Impact Configurator Guide* for details.

Cluster detail view

When you open the Configurator and select e-Biz Impact 5.4.5 Configurator (which represents one e-Biz instance), details for each of that instance's clusters display in the Configurator's right pane. That information now includes a "Files Location" column that displays where each cluster's configuration file has been saved.

When you select an application beneath the Controllers node (e-Biz Impact 5.4.5 Configurator | Cluster *n* | Controllers | Controller*n*), that application's important property names and values display in the result pane.

Select Action | Export List on the MMC tool bar to export basic properties for an application.

Updated drag, drop, cut, and paste functionality

ODL, SFM, MQAcq, MQDel, and Java objects now have standard cut, copy, move, drag-and-drop functionality in the Configurator.

❖ Copying or moving objects

- 1 In the Configurator, select the Application object beneath a Controller in the tree view.
- 2 In the right-pane, right-click the object to copy or move.
- 3 Select Cut from the menu to move the object; select Copy to copy the object.
- 4 In the tree view, select the object container where you want to put the original or copied object.
- 5 Right-click in the right pane and select Paste. The original or copied object appears in the right pane.

❖ Dragging objects to a new destination

- 1 In the Configurator, select the Application object beneath a Controller in the tree view. Make sure the destination container for the object you want to move is visible in the tree view.

- 2 In the right pane, drag the ODL, SFM, MQAcq, MQDel, or Java object to the new controller destination in the tree view.

Note This functionality is available on Windows XP, but is not guaranteed to succeed because of issues reported by Microsoft. You can find more information at

http://msdn.microsoft.com/library/default.asp?url=/library/enus/mmc/mmc/using_visual_basic_with_the_mmc_2_0_automation_object_model.asp.

Global Console

This section describes updates to the e-Biz Impact Global Console.

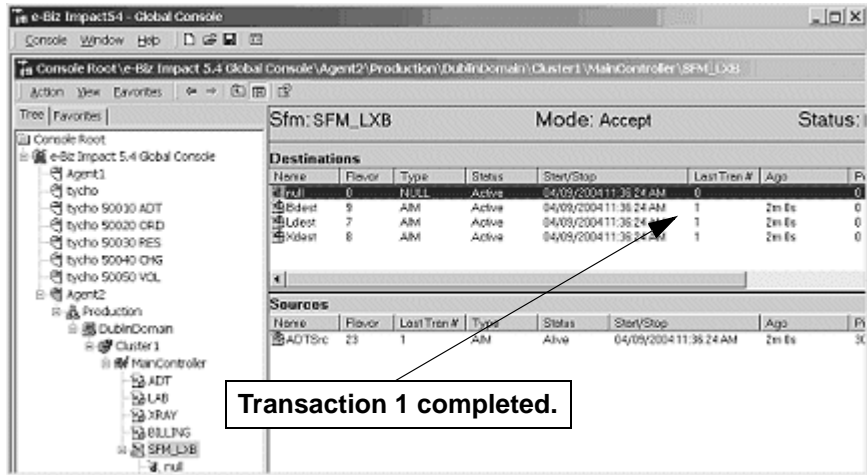
Resending completed transactions

Normally, you can resend a completed transaction only once to avoid branching the transaction history into a tree.

To resend a completed transaction more than once, you must resend the resent transaction. For example:

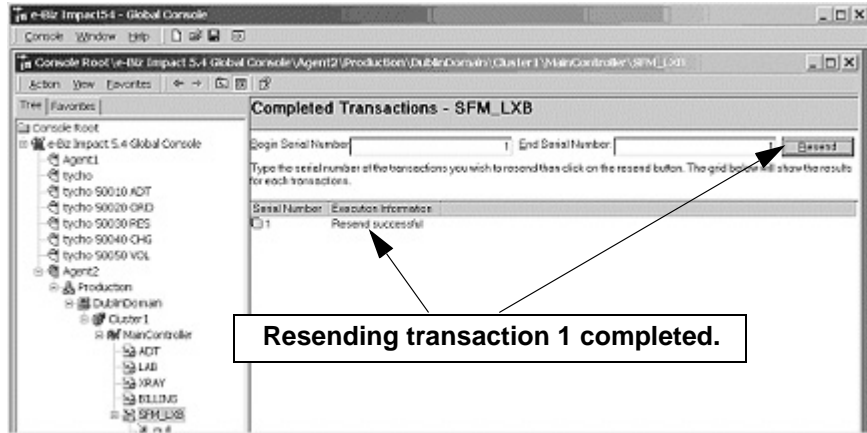
- 1 Transaction 1 is completed (acquired, processed, and delivered).

Figure 2-1: Resending transaction 1



2 Transaction 1 is resent and completed.

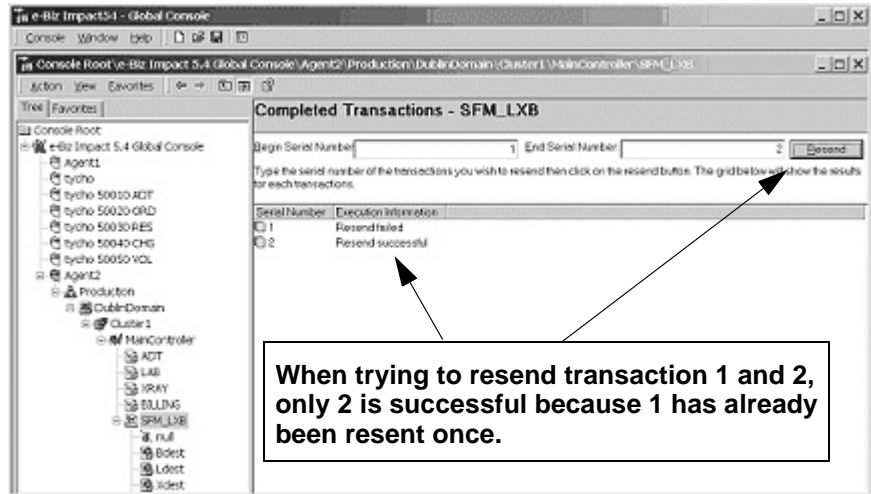
Figure 2-2: Resending transaction 2



Transaction 1 cannot be re-sent again. However, now there is a transaction 2, which is the re-sent transaction 1.

3 Transaction 2 is re-sent.

Figure 2-3: Resending transaction 3



Using this method, you can resend a completed transaction over and over again, but it is the result of the re-sent transaction that you resend.

You determine which transactions to resend by using the *ims54.sfmlog* file to query the completed log file and search for transaction serial numbers.

Only completed transactions in the completed log file can be re-sent in the Global Console—right-click the SFM in the tree view and select All Tasks | Resend | Completed Transactions.

Resending multiple unrouteable transactions

To resend multiple transactions from the unrouteable log, use a multi-select method to highlight the unrouteable transactions, then right-click and select Resend.

sfmlog utility options

The `-ofile` option has been extended (`-ofilename`) so that if the output file already exists when running `ims sfmlog`, the existing file can be overwritten.

Option	Description
-ofilename (lowercase “o”)	Specify the file to receive <i>sfmlog</i> output.
-Ofilename (uppercase “O”)	Specify the output file and overwrite the existing output file if it exists.

See the *e-Biz Impact Application Guide* for more information about the *sfmlog* utility.

BIDL utility

e-Biz Impact 5.4 enables you to create a library that bridges the ODL applications and C/C++ functions that you want to implement. The user creates a definition file that defines the ODL to C/C++ mappings, then uses that file and BIDL to generate code that is compiled into the bridge library that allows ODL to call the C/C++ functions.

See the *e-Biz Impact Command Line Tools Guide* for details.

e-Biz Impact 5.4 Features

The following table lists new or updated functionality in e-Biz Impact version 5.4 prior to version 5.4.5. New and updated functionality for version 5.4.5 is discussed in Chapter 1, “New Functionality,” and Chapter 2, “Updated Functionality.”

Feature	Description
Alerts subsystem	Allows you to generate and act upon alerts Open Transport alerts. Open Transport alerts can also be consumed by ODL applications to automate responses of paging, changing application status, and so on.
Authorization Console	Provides automatic database upgrade, and handles multiple security databases through the use of persistent connections nodes. With easy drag-and-drop operations, this tool enables the setup of authentication and authorization levels for user access to command and control requests and other development facilities. Authorization allows an administrator to authorize specific actions, eliminating the need for root privileges that run the software.
Cluster, CNC, and cmdlinedfc applications	Provides simplified command line arguments for these applications.
Cluster-to-cluster components	Enables cluster-to-cluster communication through distributed function calls (DFCs), while allowing for communication between multiple instances of e-Biz Impact to run separate clusters.
Component-based architecture	Replacement of the Impact 4.x B/SM engine by the e-Biz Impact manager enables multiple and parallel clusters to run separate instances of e-Biz Impact independently on the same server. Additionally, this architecture allows for top-level distributed processing on multiprocessor systems.
Configurator GUI	Provides a centralized location for configuring e-Biz Impact as a whole, eliminating the need for multiple configuration files and manual configuration.
DFC message size increased	Provides a dramatic increase in the message length supported by DFCs with its upper limit now governed by available system resources.
Domain type and name support	Provides configurable domain types to separate the running instances of a cluster on the same system for production, test, and development environments. Additionally, domain types can be subdivided into domain names, creating autonomous entities that operate apart from one another.

Feature	Description
Global Console	<p>The Global Console enables secure and centralized command and control facilities through a new monitoring GUI.</p> <p>This MMC-based snap-in is easily accessible along with the other new GUI tools from individual MMC console sessions, and uses Microsoft SNMP libraries, eliminating the need to purchase third-party vendor components, such as DCE.</p> <p>Global Console also extends monitoring to the transaction management facility, which allows authorized operators to control, repair, and interact with live transactions.</p>
Host logging	Host logging facilitates the initial development of AIM interfaces by enabling the logging of data sent or received from TCP endpoints.
Interoperability	e-Biz Impact 5.x is compatible with other Sybase products, including e-Biz Integrator, Process Server, and the adapters built to work with those products.
Log file maintenance utility relocated	The e-Biz Impact log file maintenance utility has been integrated within the Global Console and extended to provide transaction repair.
ODL publishing	ODL publishing optimizes operation management and connectivity by allowing an ODL application to publish state information, which displays to the operator in the Global Console.
Open Transport support	<p>e-Biz Impact is compatible with message transports used by the New Era of Networks e-Biz Integrator, IBM MQSI, and WMQI.</p> <p>This compatibility allows ODL to receive and send data to and from a variety of transports such as JMS, IBM MQSI, WMQI, File Driver, WebSphere MQ, and so on.</p>
Plug-in support	Plug-in support enables individual applications to be stopped, started, and reloaded within a cluster, eliminating the need to shut down other applications.
Secure command line administration	<p>e-Biz Impact provides a command and control (CNC) utility that delegates command and control requests. e-Biz Impact authenticates and authorizes a request by looking in the security database that manages authorization of user permissions.</p> <p>This command line utility enables stopping, pausing, and restarting e-Biz Impact clusters, controllers, and applications.</p>
SFM automatic archiving	The Store and Forward Manager (SFM) archives transactions into a separate log file, and saves this file at user-defined intervals.
SNMP	e-Biz Impact provides improved SNMP support by providing increased information about state and publishing out advanced telemetry data through SNMP.
Updated IDE tools	Supports new ODL objects and methods and more complex data structures, such as cIOT, cITree (XML).

Feature	Description
XML support	<p>A structured tree data format that preserves metadata associated with source messages, NDO enables tree-to-tree, tree-to-stream, stream-to-tree, and stream-to-stream data transfers, ensuring compatibility with other New Era of Networks products.</p> <p>e-Biz Impact provides end-to-end support for a message format standard called New Era of Networks Data Object (NDO), making it easier for components connected by an integration server to share data.</p> <p>Supports integration with a growing number of third-party vendor applications that require XML message standard and enables the serializing of NDO messages to XML for backward compatibility.</p>

Documentation Additions and Updates

This chapter provides updates to the e-Biz Impact documentation. These updates have not, in some cases, been incorporated into the e-Biz Impact 5.4.5 core documentation.

Topic	Page
General changes	21
Authorization Guide	22
Command Line Tools Guide	22
Java Support for e-Biz Impact	23
MSG-IDE Guide	23
Monitoring e-Biz Impact	24
ODL Guide	24
TRAN-IDE Guide	24

General changes

To improve the usability of the e-Biz Impact documentation, some of the core books have been consolidated to group related information and eliminate redundancy.

- The *e-Biz Impact ODL 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*.

Monitoring e-Biz Impact also includes information on the Event Monitor—a new GUI utility that creates viewable events generated by Simple Network Management Protocol SNMP traps. You can monitor information, warning, and error events, and drill down to see specific event details.

Authorization Guide

The *e-Biz Impact Authorization Guide* has been updated to list the commands required by roles and groups to ensure execution of both common and complex tasks.

An authorization process flow diagram has also been added.

Command Line Tools Guide

SNMP port specification

The section “Executing CNC requests with the command line utility” in Chapter 2, “Using Command and Control Requests,” has been updated with this requirement:

When using custom SNMP ports, you must specify the `env.snmp.port` entry. If you do not specify this argument (for example, `env.snmp.port 6163`), `ims54cnc` does not work correctly.

NNCrypt, *NNGetmsg*, and *NNPutmsg*

The section “Wrapper scripts” in Chapter 1, “e-Biz Impact Command Utilities,” has been updated with command references for *NNCrypt*, *NNGetmsg*, and *NNPutmsg*. These commands are useful when using e-Biz Impact with WebSphere MQ and Open Transport.

Note See *Monitoring e-Biz Impact* and the *New Era of Networks Adapter for SAP R/3 3.9 User’s Guide* for more information about using NN-type commands.

Java Support for e-Biz Impact

Java Support for e-Biz Impact is an addition to the e-Biz Impact version 5.4.5 core documentation. This book describes the Java support available in e-Biz Impact version 5.4.5, which provides a practical way for users to interact with e-Biz Impact from a Java application by providing a set of Java classes, interfaces, and exceptions.

See *Java Support for e-Biz Impact*, located on the SyBooks CD that comes with the product.

MSG-IDE Guide

A table of possible database interface object callback functions has been added to the section “Database interface objects” in Chapter 1, “Overview.”

When you create database interface objects and define SQL statement result options, you can specify or create a function that executes after each result row is gathered and acts on the data in the new row. The following table lists possible callback events generated by the Database Interface Object.

Event	Condition
DBE_SELECT	Got a row of data on a select or stored procedure.
DBE_ERR_OOM	Out of memory error.
DBE_ERR_SQL	SQL syntax error at run time.
DBE_ERR_ARG	Invalid arguments.
DBE_ERR_NOROWS	No rows affected on insert/update/delete command.
DBE_NOTIFY	Insert/update/delete completed successfully.
DBE_EMPTY	SELECT has returned empty result set.
DBE_RESULT	SELECT has returned entire result set, which has at least one result row.

Monitoring e-Biz Impact

Monitoring e-Biz Impact is an addition to the e-Biz Impact version 5.4.5 core documentation. This book consolidates the *e-Biz Impact Alerts Guide*, the *e-Biz Impact Global Console Guide*, and the *e-Biz Impact SNMP Guide*.

This book includes documentation for a new GUI utility, the Event Monitor, that allows you to view Simple Network Management Protocol (SNMP) traps.

ODL Guide

The *e-Biz ODL Application Guide* has been removed from the documentation set and the content has been incorporated into the *e-Biz Impact ODL Guide*. The *e-Biz Impact ODL Guide* has also contains updates on the following topics:

- Using shared libraries
- Using the kill() command
- Using the connectStr() command

TRAN-IDE Guide

The section “Working with repositories” in Chapter 2 of the *e-Biz TRAN-IDE Guide* has been updated with instructions on using the HL7 objects repository that contains TRAN-IDE field objects for standard 2.1, 2.2, and 2.3 inbound HL7 message segments, and skeleton TRAN-IDE rule objects with rule component objects for standard 2.1, 2.2, or 2.3 outbound HL7 message segments.

Resolved Problems

This chapter lists software problems that have been fixed in e-Biz Impact version 5.4.x.

Topic	Page
Authorization Console	25
Bus (Impact Manager)	26
cIDbi	26
CNC	27
Configurator	27
DFCs	28
e-Biz Impact server	28
Global Console	29
Installer	30
MQAcq	30
MQDel	31
MSG-IDE	31
ODL	31
SFM	31
TRAN-IDE	32

Authorization Console

Number	Description
340192	Added new command for GetStatus (application).
357040	No fix required. For the Authorization server, the Adaptive Server Anywhere engine can run multiple database files. See the Adaptive Server Anywhere documentation on the e-Biz Impact SyBooks CD.
358816	Added name field for new user window, and the ability to assign roles upon user creation.
359436	The name and graphic for the group icon has changed.

Number	Description
362996	Removed benign OLE error seen when adding a new role in e-Biz Impact version 5.4.1.
363112	Support added for multiple clusters.

Bus (Impact Manager)

Number	Description
351287	Information log messages no longer leak memory when thread terminates.
352451	ODL engine is now completely cleared when the SFM or ODL application is restarted
361196, 363413	No fix or enhancement. e-Biz Impact 5.4.x is not a 64 bit applications; therefore there is no support for Microsoft AWE memory.
363315	Impact Manager now logs database errors in <i>authlog</i> file to offer debugging when CNC requests are unsuccessful.
365090	No fix required. e-Biz Impact cannot control memory managed by operating system's memory manager.
368446	Impact Manager now differentiates connection timeout (3320) from command not authorized (3310).

cIDbi

Number	Description
349258	cIDbi was not accepting more than eight parameter/values in stored procedure calls. The problem is fixed and any number and combination of parameter types works.
348500	cIDbStatement callback was not being triggered for DBE_ERR_NOROWS event. This is now fixed.
348380	Database user ID and password no longer showed in cleartext in <i>.mod</i> file.
348504	cIDbi execution of create and drop no longer always returns -1 regardless of success.

CNC

Number	Description
309215	ims54cnc was not returning success or failure code. Tool now reports 1 for success, 0 for failure.
322511	No fix required. ims54cnc requires env.snmp.port for custom SNMP port to avoid failure.
340192	New command of GetStatus added for applications, controllers, and clusters.
345796	CNC commands no longer leak memory when CNC thread terminates.
363110	CNC “accept” thread no longer randomly prevents further connections.

Configurator

Number	Description
327379	Configurator has improved usability, tree navigation, and offers limited reporting options.
327976	Configurator now offers a Notes tab. The information from this tab is saved in the XML configuration file.
339326	Sync Write is available in the Configurator as a selectable option on the SFM general property page to enable direct file I/O operations.
342142	No fix required. Configurator does not allow you to harvest or deploy configuration files to remote servers.
343274	You can now cut, copy, paste, or drag and drop ODL, SFM, MQAcq, MQDel, and Java objects from one controller to another controller. See “Updated drag, drop, cut, and paste functionality” on page 12.
349664	You can now use the e-Biz Impact 5.4 Configurator to edit Dfcsrv application properties for a version 5.3 cluster.
350379	You can now load a cluster into the Configurator after adding a custom key when the key name is the same as the group name.
350580	You no longer have to kill the Microsoft Management Console to regain control of the Load Cluster window.
350582	Flavor field in SFM window is now initialized.
350583	A flavor of 0 no longer throws a confusing error on DFCs and SFMs.
363001	No fix required. Inability to set ping function on MQAcq AIM is because the application is an acquire type, which does not service DFC calls.

Number	Description
363321	The Configurator tree view has been enhanced to improve viewing and usability. Removes unused applications and other unused node types. Created more efficient use of new menu and all task menu items allowing for the creation of custom application types, local or remote controllers, and various applications.
364742	Fixed problem where Configurator could not open a cluster when an application custom key value contained a back slash.
367493	Option added that allows you to set up DFC availability for SFM route functions. This option is available in the Configurator on the SFM General tab of the properties window.

DFCs

Number	Description
349258	Improved efficiency of command line DFC (ims54cmdlinedfc).
350349	No fix required. Simultaneous delivery of transactions to the same destination cause errors if the last transaction ID is not properly recorded and the end point socket cannot receive multiple calls on the same TCP port. Recommend one delivery per endpoint.

e-Biz Impact server

Number	Description
340192	Added command line GetStatus (application).
345410	IBM-AIX only. Transactions greater than 17640 are always sent over TCP/IP.
351287	Memory leak no longer occurs when an attempted socket connection fails.
351304, 354257	A missing acquisition AIM project no longer causes the controller to grow in size.
352451	CNC commands no longer cause memory leak in controllers.
356251	ODL RTE call back engine no longer causes memory leaks on Solaris.
360666	Decimal division on AIX no longer returns zero.
363110	CNC accept thread longer randomly prevents further connections.

Global Console

Number	Description
330154	The Global Console now displays the reason for a stuck destination in the destination general view error-text field.
341895	The Global Console resends, skips, and cancels transactions by range to improve speed.
341897	You can now resend transactions more than once. See “Resending completed transactions” on page 13.
344595	The Global Console now offers independent view refresh timers. When you refresh a window, only that window’s contents are refreshed. Specifically, if items in the left pane are selected, only those selected items that display in the right pane are updated instead of the entire list in the left tree view. This independent view refresh timer affects all open views and can be set in the property window of the e-Biz Impact Global Console root node.
344607	Corrected background pooling refresh speed in the Global Console tool to increase performance. Each agent has now a dedicated background process to poll and refresh.
344610	No fix necessary. Tree view cannot be sorted in the Global Console. The tree view object is the same as the tree view used in the Windows Explorer. The nodes are created upon discovery of the SNMP data published by the server.
345326	Added the ability to resend multiple transactions from the unrouteable transaction view. See “Resending multiple unrouteable transactions” on page 15.
351277	Unrouteable transactions count now display in the Sources and Destinations views.
354543	Fixed the problem that occurred when editing a unrouteable transaction and switching to another application, the window focus was lost. Fixed by setting form owner to MMC main window.
358646	Login window field labels corrected.
360815	Fixed error 9511 raised on CreateNewNode, which occurred when there were duplicate nodes. Duplicate node indexing, which allowed this to occur, is prevented.
362107	Removed messages that reference previous e-Biz Impact versions.
362467	<p>The Global Console now retains the <code>clSetAimStatus</code> history in the application instance view. Previously, you could only see the last message from <code>clSetAimStatus</code>. With this enhancement, the application instance view records any change of state in chronological order. A state change is found when one of these conditions is found:</p> <ul style="list-style-type: none"> • Application starts • Application instance Custom Health Code has changed • Application instance Custom Health Code is identical, but application instance Custom Heath Text has changed <p>The view keeps as many as 500 history records, then rolls over. The history view is now cleaned up when the Global Console is closed.</p>

Number	Description
366410	Set form owner to MMC main window to allow editing a unprocessed transaction, switching to another application, and not losing the window focus. You can also return to the wizard.
367123	Fixed the problem of saving a transaction from the Global Console to a file when part of the prior data is still in the file. Now the file is emptied prior to writing a new transaction.
368469	Global Console raises “SNMP request failed” during pooling when a cluster starts, because (most of the time) the Global Console attempts a selective refresh on items that have not been published. This leads to messages, even though the Global Console continues to operate. The SNMP information and warning events now display on the Status bar; the information is still provided, but without blocking the execution of the Global Console.

Installer

Number	Description
346925	Removed <i>libCrun.so</i> distributed with e-Biz Impact server on Solaris to prevent conflict with system library. Old <i>libCrun.so</i> has a leak in type of keyword, which affects all runtime call backs in ODL, including protocol objects, database callbacks, and so on.
349047	e-Biz Impact server install no longer fails on AIX 4.3. This issue was related to the JRE.

MQAcq

Number	Description
362492	WebSphere MQ acquisition AIMS no longer use 100% CPU when a connection to QMGR is lost. Modified <code>clot.get()</code> method to return 1 for a message, 0 for an exception, and added -1 to indicate no message available.

MQDel

Number	Description
363603	Added the ability to set up custom DFC calls for MQDel AIMs. MQAcq AIMs cannot receive distributed function calls.

MSG-IDE

Number	Description
342913	No fix required. Request was made for the ability to exclude patterns when setting up message frame objects in MSG-IDE. It is not feasible to implement this option, although there are multiple ways to use the current product to achieve the same behavior. Additional frames can be attached to the protocol object to be matched in order from most to least specific, or a secondary protocol object can be used in a secondary scan to look for the exclusion characters and patterns.
346787	No fix required. Copy project files to clone AIMs.

ODL

Number	Description
344431	No fix required. Blob methods cannot work on strings because string objects are null terminated.
352775	If the number of SFM to destination retries is set to a high number and a short retry interval to destinations that are down, significant memory growth was seen and caused the controller to fail. Fixed; duplicate of CR# 351287.
354257	Missing acquisition AIM projects no longer cause the controller to grow in size.

SFM

Number	Description
292108	Missing route_recx options RO_MUSTBEUP and RO_MUSTBEPOLLED added.
335104	Unrouteable and cancelled transactions count no longer persist in Global Console.

Number	Description
339326	Sync Write option is now available as an option on the Configurator SFM property page.
340195	No fix required. sfmlog cannot repair corrupted transaction log files. If the log file is corrupted, execution fails.
344730	On UNIX, if you run the sfmlog utility as a user other than the user who created the log file, unexpected results no longer occur.
345334	HP-UX only. Problem when the SFM could not find a production object, but started anyway. The code now checks for null pointer situations when a production object defined in the SFM configuration file cannot be found in the project files, and passes an error return code back to the SFM. The SFM does not start if it sees the error.
348143	No fix required. StallTime and Rewarn are not in SRC record in the SFM.
348213	sfmlog overwrites existing log files. If the output file already exists, the existing file is overwritten. See “sfmlog utility options” on page 15.
359559	Fixed SFM status for paused AIM when returning from servproc. Previously, the destination appeared to be active when it was paused.
362798	SFM crashed when repaired transaction was sent to a project with multiple production object. Fixed.
364106	SFM did not release archive file handles, which led to failure when the tunable file handler limit was reached. File handlers are now released when a new archive file is created, and only one file handler is used at any time for archiving.

TRAN-IDE

Number	Description
257332	No fix required. The input side of TRAN-IDE offers filters and tables.
296091	No fix required. TRAN-IDE and MSG-IDE GUIs cannot offer drag-and-drop functionality because of ODL limitations.
305744	No fix required. The design of SQL statements in the database interface requires that you be connected to the database.
335858	TRAN-IDE now checks the ODL description and displays a warning message if the description is too long, and prevents you from saving a description that will not load.
349646	No fix required. TRAN-IDE does preserve the order of module files in a project.
350486	No fix required. TRAN-IDE does not have a size limitation when loading files into the test drive. Recommend using small files to prevent memory issues.
349650	No fix required. TRAN-IDE cannot offer an “orphan component finder” feature.

Index

A

about this book v
Adaptive Server Anywhere documentation vii
Alerts Guide. See *Monitoring e-Biz Impact*
application properties Notes tab 11
Authorization Console fixed bugs 25
Authorization Guide updates 22

B

BIDL utility 15
bugs, fixed 25
bus (Impact Manager) fixed bugs 26

C

cIDbi fixed bugs 26
cluster detail view 12
CNC fixed bugs 27
Command Line Tools updates 22
Configurator
 application properties Notes tab 11
 cluster detail view 12
 default directory location 10
 fixed bugs 27
 ODL application resource file limit and depth 10
 SFM properties Sync Write option 11
 updated drag, drop, cut, paste functionality 12
 updates 9
conventions viii

D

default directory location 10
distributed function call (DFC) fixed bugs 28
documentation

Adaptive Server Anywhere vii
 related e-Biz Impact v
documentation updates
 Authorization Guide 22
 authorization process flow 22
 Command Line Tools 22
 HL7 repository 24
 Monitoring e-Biz Impact 24
 NNCrypt, NNGetmsg, NNPutmsg 22
 ODL Application Guide 24
 shared libraries for custom C functions 15
 SNMP port specification 22
 TRAN-IDE Guide 24

E

e-Biz Impact
 fixed server bugs 28
 new features in version 5.4.5 1
 related documentation v
 version 5.4.5 features 17
Event Monitor 4

F

features
 Event Monitor 4
 Java support 1
 new in version 5.4.5 1
 shared memory 7
fixed bugs 25
 Authorization Console 25
 bus (Impact Manager) 26
 cIDbi 26
 CNC 27
 Configurator 27
 distributed function calls 28
 e-Biz Impact server 28

Index

- Global Console 29
 - installer 30
 - MQAcq AIMS 30
 - MQDel AIMS 31
 - MSG-IDE 31
 - ODL 31
 - SFM 31
 - TRAN-IDE 32

- G**
- Global Console
 - fixed bugs 29
 - updates 13

- H**
- HL7 repository documentation updates 24

- I**
- Impact Manager fixed bugs 26
- installer fixed bugs 30

- J**
- Java support 1
 - plug-in access 3
 - remote access 2
 - Web services 4
- Java Support for e-Biz Impact* 23

- M**
- memory, shared 7
- Monitoring e-Biz Impact* updates 24
- MQAcq AIM fixed bugs 30
- MQDel AIM fixed bugs 31
- MSG-IDE fixed bugs 31

- N**
- new features
 - Event Monitor 4
 - Java support 1
 - shared memory 7

- O**
- ODL
 - application resource file limit and depth 10
 - fixed bugs 31
- ODL Application Guide* updates 24

- P**
- plug-in access Java support 3
- preface v
- problems, fixed 25

- R**
- related documents v
- remote access Java support 2

- S**
- SFM
 - fixed bugs 31
 - Sync Write properties option 11
- shared libraries for custom C functions 15
- shared memory 7
- SNMP port specification documentation updates 22
- support
 - Java 1
 - Web services 4

- T**
- TRAN-IDE fixed bugs 32
- TRAN-IDE Guide* documentation updates 24

U

updated drag, drop, cut, paste functionality 12

updates 9

Authorization Guide 22

Command Line Tools 22

Configurator 9

Global Console 13

Monitoring e-Biz Impact 24

ODL Application Guide 24

TRAN-IDE Guide 24

