

# e\*Gate Integrator Release Notes

*Release 5.0.5 for Schema Run-time  
Environment (SRE)*



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# Contents

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## Chapter 1

<b>Introduction</b>	<b>6</b>
<b>About This Document</b>	<b>6</b>
What's in This Document	6
Scope	6
Intended Audience	7

---

## Chapter 2

<b>What's New in This Release</b>	<b>8</b>
<b>Supported Operating Systems</b>	<b>8</b>
Windows Version Updates	8
UNIX Version Updates	9
<b>Supported Java Environment</b>	<b>10</b>
<b>Supported External Systems</b>	<b>10</b>
Changes to SWIFT Message Types	11
<b>Supported ICAN Suite Components</b>	<b>11</b>
<b>Interoperability with WebLogic</b>	<b>12</b>
<b>Support for Additional X Window Emulators</b>	<b>12</b>

---

## Chapter 3

<b>e*Gate Integrator Core</b>	<b>13</b>
<b>e*Gate Integrator – New Features for SRE 5.0.5</b>	<b>13</b>
Schema and Project Integration	13
Improved Monitoring	13
<b>e*Gate Integrator – New Features Since Release 4.5.2</b>	<b>13</b>
Platform Support	14
Registry	14
Schema Manager	14
e*Way Editor	14
Event Type Definitions (ETD)	14
Collaborations	14
Java Messaging Service (JMS) Intelligent Queue (IQ) Manager	14
JMS Administrator	14

Intelligent Queue (IQ)	15
Event Processing	15
Internationalization	15
Javadocs	15
<b>Platforms</b>	<b>15</b>
Support for Running Multiple Versions of e*Gate on a Single UNIX Server	15
New -spc flag for the Control Broker (stccb) utility (Windows only)	15
<b>Registry</b>	<b>15</b>
Registry Connection Protection	15
<b>Schema Manager</b>	<b>16</b>
Addition of Summary and Detail Tabs	16
<b>e*Way Editor</b>	<b>16</b>
Retrieve New Parameters	16
<b>Event Type Definitions (ETD)</b>	<b>17</b>
ETD Tester interface changes	17
“Standard ETD” becomes “Custom ETD”	17
<b>Collaborations</b>	<b>17</b>
Collaboration Scheduling	17
enableSaveInboundImage() method	17
Collaboration Editor enhancements	18
<b>Java Messaging Service (JMS) Intelligent Queue (IQ) Manager</b>	<b>18</b>
Journaling	18
Default Configuration checkbox	19
Binding to the Java Naming and Directory Interface™ (JNDI) from the JMS Administrator	19
<b>JMS Administrator</b>	<b>19</b>
Lock Events	19
User values	19
<b>Intelligent Queue (IQ)</b>	<b>20</b>
Automated archiving and importing of messages	20
<b>Event Processing</b>	<b>20</b>
FIFO	20
Time-Based Sequencing	20
<b>Internationalization</b>	<b>21</b>
<b>Javadocs</b>	<b>21</b>

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## Chapter 4

### **e\*Gate Integrator Add-ons** **22**

<b>New Add-ons</b>	<b>22</b>
Generic Multi-Mode e*Way Extension Kit	22
<b>Changes to Existing Products</b>	<b>22</b>
e*Gate Integrator Alert Agent	22
Batch e*Way Intelligent Adapter	22
e*Way Intelligent Adapter for DB2 Universal Database	23
e-Mail e*Way Intelligent Adapter	23
HL7 ETD Library	23
e*Way Intelligent Adapter for JDBC/ODBC	23
e*Way Intelligent Adapter for ODBC	23
e*Way Intelligent Adapter for Oracle	24
e*Way Intelligent Adapter for SQL Server	24
SWIFT ETD Library	24

## Contents

e*Way Intelligent Adapter for Sybase	24
e*Way Intelligent Adapter for TCP/IP HL7	24

# Introduction

This document summarizes new features and changes to the Integrated Composite Application Network (ICAN) Suite from release 4.5.2 to release 5.0.5 for SRE update 2.

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## 1.1 About This Document

### 1.1.1 What's in This Document

This document is divided into chapters that cover the topics listed below:

- **Chapter 1 “Introduction”** gives a general preview of this document, its purpose, scope, and organization.
- **Chapter 2 “What's New in This Release”** provides information about the changes made to the ICAN Suite for SRE for this release.
- **Chapter 3 “e\*Gate Integrator Core”** provides information about the changes made to ICAN Suite core products from release 4.5.2 to release 5.0.5 for SRE, update 1.
- **Chapter 4 “e\*Gate Integrator Add-ons”** provides information about the changes made to ICAN Suite add-on products from release 4.5.2 to release 5.0.5 for SRE, update 1.

*Note: The information provided in **Chapter 2 “What's New in This Release”** supersedes any contradicting information in **Chapter 3** and **Chapter 4**. Certain changes for this release have made changes for previous versions obsolete.*

### 1.1.2 Scope

This guide provides information about the changes made to the ICAN suite, including new products, obsolete products, operating system and external system changes, and background information where required.

This guide does not include information or instructions on upgrading an existing ICAN Suite or working with any of the product components. These topics are covered in the appropriate guide.

### 1.1.3 Intended Audience

Any user who upgrades the ICAN Suite or works with any of the suite components should read this guide. A thorough knowledge of the ICAN Suite is not needed to understand this guide, but a general understanding is helpful. It is presumed that the reader of this guide is familiar with the e\*Gate Integrator environment and GUIs, eGate projects, and the operating systems on which e\*Gate runs.

# What's New in This Release

The release of ICAN Suite for SRE 5.0.5 Update 2 provides support for newer operating systems and external systems, and provides general maintenance fixes. For information on upgrading to the latest version of ICAN Suite for SRE, see the *e\*Gate Integrator Installation Guide*.

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## 2.1 Supported Operating Systems

This section describes the changes to supported operating systems for this release. With these changes, the ICAN Suite for SRE supports more current versions of operating systems. For a complete list of system requirements, see the e\*Gate Integrator **readme.txt** file, located on your installation CD.

The following operating systems are supported in SRE Update 2. Changes from the previous version are described in the following sections.

- Windows XP SP3
- Windows Server 2008 R2
- Windows 7 (32-bit)
- HP-UX 11i v2.0 (Itanium)
- HP-UX 11i v3.0 (Itanium)
- IBM AIX 6.1
- Solaris 10 (SPARC)
- Solaris 10 (AMD and Intel)
- Red Hat Enterprise Linux AS 5 (Intel x86)

### 2.1.1 Windows Version Updates

The following **new** Windows operating systems are supported:

- Windows XP with SP3
- Windows Server 2008 R2
- Windows 7 (32-bit)



The following Windows operating systems are no longer supported:

- Windows 2000
- Windows Server 2003
- Windows XP with SP2
- Windows Vista
- Chinese Windows 2000 with Service Pack 2 or 3
- Chinese Windows XP with Service Pack 1a or 2
- Chinese Windows Server 2003
- Japanese Windows 2000 with Service Pack 2 or 3
- Japanese Windows XP with Service Pack 1a or 2
- Japanese Windows Server 2003
- Korean Windows 2000 with Service Pack 2 or 3
- Korean Windows XP with Service Pack 1a or 2
- Korean Windows Server 2003

## 2.1.2 UNIX Version Updates

The following **new** UNIX operating systems are supported:

- HP-UX 11i v3.0 (Itanium) with required patches and parameter changes
- IBM AIX 6.1, with required maintenance patches
- Oracle Solaris 10 (AMD and Intel) on limited products
- Oracle Solaris 10 (SPARC)
- Red Hat Enterprise Linux AS 5 (Intel x86)

**Note:** *Some e\*Ways are not supported on Solaris 10 (AMD and Intel), including the MQSeries e\*Way and Siebel EAI e\*Way.*

The following UNIX operating systems are no longer supported:

- HP Tru64 UNIX V5.1A or 5.1B
- HP-UX 11.0 (PA-RISC) and 11i (PA-RISC)
- IBM AIX 5.1L, 5.2, and 5.3
- Oracle Solaris 8 and 9
- Red Hat Enterprise Linux AS 2.1 (Intel x86) and AS 4
- SuSE Linux Enterprise Server 8, 9, and 10 (Intel x86)
- Chinese Sun Solaris 8 and 9
- Japanese HP-UX 11.0 (PA-RISC) and 11i (PA-RISC)
- Japanese IBM 5.1L, 5.2, and 5.3

- Japanese Sun Solaris 8 and 9
- Korean HP-UX 11.0 (PA-RISC) and 11i (PA-RISC)
- Korean IBM AIX 5.1L, 5.2, and 5.3
- Korean Sun Solaris 8 and 9

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## 2.2 Supported Java Environment

The supported version of the Java Development Kit (JDK) and Java Runtime Engine (JRE) was updated for this release. Version 1.3.1 is no longer supported and the new supported version is 1.6.0\_19.

You can download JDK 1.6.0\_19 from the following source:

<http://java.sun.com/products/archive/index.html>

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## 2.3 Supported External Systems

The following new external systems are supported for the products listed in the following table. In addition, Microsoft Internet Explorer 7.0 or later is supported.

ICAN Product	Newly Supported External System
Oracle eWay	Oracle 11g
SQL Server eWay	SQL Server 2008 (10.0.1600.22)
DB2 Universal Database eWay	DB2 9.5 and 9.7
e*Insight Business Process Monitor	Oracle 11g and SQL Server 2008 (10.0.1600.22)
e*Index Global Identifier	Oracle 11g and SQL Server 2008 (10.0.1600.22)
e*Xchange Partner Manager	HIPAA 5010 transactions X12 5010 transactions, including 999 acknowledgements Oracle 11g
HL7 ETD Library	HL7 v2.5.1 and v2.6
SWIFT ETD Library	SWIFT 2009, 2010
HIPAA ETD Library	5010 transactions

**Note:** *Sybase is no longer supported in the ICAN Suite for SRE. The SWIFT 2010 ETD Library does not support BICPlusIBAN.*

## Changes to SWIFT Message Types

The features and limitations present in the SWIFT 2009 Message Library are carried over into the SWIFT 2010 Message Library. In addition, the following message types have changed between the 2009 and 2010 versions.

- MT306
- MT321
- MT500-MT502
- MT504
- MT505
- MT 507-MT509
- MT513-MT515
- MT518
- MT527
- MT530
- MT535-MT537
- MT540-MT548
- MT558
- MT564-MT567
- MT575
- MT578
- MT586
- MT600
- MT601
- MT604-MT609
- MT620
- MT646

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## 2.4 Supported ICAN Suite Components

This release supports only a subset of the original ICAN Suite components. The following components are supported.

### Core Components:

- e\*Gate Integrator
- e\*Insight Business Process Manager
- e\*Xchange Partner Manager
- e\*Index Global Identifier

### e\*Way Intelligent Adapters:

- e\*Way Intelligent Adapter for Batch
- e\*Way Intelligent Adapter for DB2 Universal Database
- e\*Way Intelligent Adapter for e-Mail
- e\*Way Intelligent Adapter for HTTP
- e\*Way Intelligent Adapter for JDBC/ODBC
- e\*Way Intelligent Adapter for ODBC
- e\*Way Intelligent Adapter for Oracle
- e\*Way Intelligent Adapter for Siebel EAI (Java only)

- e\*Way Intelligent Adapter for SQL Server
- e\*Way Intelligent Adapter for MQSeries
- e\*Way Intelligent Adapter for TCP/IP
- e\*Way Intelligent Adapter for TCP/IP HL7

**ETD Libraries and Utilities:**

- HIPAA ETD Library
- HL7 ETD Library
- SWIFT ETD Library
- Alert Agent
- XML Toolkit

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## 2.5 Interoperability with WebLogic

This release provides connectivity with Oracle WebLogic Server through the Oracle SeeBeyond JMS IQ Service. For information about how to configure your schemas to connect with WebLogic, see “Using the ICAN Suite with WebLogic Through JMS” in the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

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## 2.6 Support for Additional X Window Emulators

Previous versions of the ICAN Suite for SRE only supported Exceed 7.0 X-window emulation, which was included with the eGate installation. SRE Update 2 no longer includes Exceed as part of the installation.

For Windows XP, you can either continue using your existing installation of Exceed 7.0, or you can install Exceed 14. Windows 7 requires Exceed 14, and Windows Server 2008 R2 requires Exceed 14v.

Using Exceed 14 requires some additional changes to your environment. For information about configuring your system to use a different emulator, see the *e\*Gate Integrator Installation Guide*.

**Note:** *If you remove your existing installation of Exceed 7.0, you can reinstall it from the installation media for your previous version of eGate.*

# e\*Gate Integrator Core

This chapter discusses new and changed features in the e\*Gate Integrator core system **up to SRE 5.0.5 update 1**. This information is separated into new features for SRE and new features since release 4.5.2.

**Important:** *When conflicting information occurs, the information in [Chapter 3, “e\\*Gate Integrator Core” on page 13](#) takes precedence over the information in this chapter. This chapter is provided only as a reference to changes made in earlier versions.*

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### 3.1 e\*Gate Integrator – New Features for SRE 5.0.5

The following features have been added to e\*Gate Integrator for SRE.

#### Schema and Project Integration

The Schema Runtime Environment makes it possible for:

- e\*Gate components running in the version 5.0 SRE can publish to and subscribe from eGate 5.0 Projects.
- eGate 5.0 components can publish and subscribe to e\*Gate components running in the version 5.0 SRE.

#### Improved Monitoring

The eGate 5.0 Enterprise Manager provides enhanced monitoring functionality of Project and Schema components. For example, the Monitor in the eGate 5.0 Enterprise Manager displays the number of messages waiting for any given component.

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### 3.2 e\*Gate Integrator – New Features Since Release 4.5.2

The following features have been added to e\*Gate Integrator since version 4.5.2. This does not include any changes made between SRE versions. For information about the latest changes, see [Chapter 2, “What’s New in This Release” on page 8](#).

## Platform Support

- Extended platform support
- Support for running multiple versions of e\*Gate on a single UNIX server
- New `-spc` flag for the Control Broker (stccb) utility (Windows only)

## Registry

Registry connection protection

## Schema Manager

Addition of Summary and Detail tabs

## e\*Way Editor

Retrieve new parameters

## Event Type Definitions (ETD)

- ETD Tester interface changes
- Name change - “Standard ETD” becomes “Custom ETD”

## Collaborations

- Collaboration Scheduling
- `enableSaveInboundImage()` method
- Collaboration Editor enhancements:
  - ◆ Addition of “Break” button
  - ◆ Ability to select, drag, and drop multiple Rules in the Business Rules pane
  - ◆ More descriptive default name for a new Business Rule
  - ◆ Ability to copy Rules between multiple instances of Collaboration Editor

## Java Messaging Service (JMS) Intelligent Queue (IQ) Manager

- Journaling support
- Default Configuration checkbox
- Java Naming and Directory Interface™ (JNDI) binding from the JMS Administrator
- JMS Ping: Allows “ping” messages to be configured to avoid firewall timeouts.

## JMS Administrator

- Lock Events

- User values

## Intelligent Queue (IQ)

Automated archiving and importing of messages

## Event Processing

- First-in-first-out (FIFO) messaging (Standard and JMS)
- Time-based sequencing (JMS only)

## Internationalization

Support for multiple non-English environments

## Javadocs

Availability of Javadocs

### 3.2.1 Platforms

## Support for Running Multiple Versions of e\*Gate on a Single UNIX Server

More information about installing multiple versions of e\*Gate on the same UNIX server has been added to the *Installing and Running Different Versions of e\*Gate on UNIX* section of the *e\*Gate Integrator Installation Guide*.

## New -spc flag for the Control Broker (stccb) utility (Windows only)

To support Windows clustering, the Control Broker (stccb) utility now has a new flag, **-spc**. Use this flag to specify the number of seconds for the Control Broker to wait after sending a shut down request to all modules. After the specified time has elapsed, the Control Broker shuts down all modules that are still running.

### Documentation Resource

For more information about this flag, see the command arguments table in the *Control Broker: stccb* section of the *e\*Gate Integrator System Administration Guide*.

### 3.2.2 Registry

## Registry Connection Protection

Registry connection protection prevents Control Brokers and GUIs running on systems with earlier versions of e\*Gate from connecting to a Registry Host running e\*Gate 4.5.3. This protects the integrity of the e\*Gate Registry maintained by the Registry Host, and

prevents any problems that could occur if there is a version mismatch between the Registry Host, Participating Host, and graphical user interface (GUI).

Additionally, this feature protects against accidental upgrades of core files that sometimes occurred when older versions of the addons, GUIs, and Participating Hosts were installed.

**Note:** *All components integrating with the eGate 5.0 Repository must upgrade to e\*Gate 5.0 SRE.*

#### Documentation Resource

For more information about Registry connection protection, see the *Registry Connection Protection* section of the *e\*Gate Integrator Installation Guide*.

### 3.2.3 Schema Manager

#### Addition of Summary and Detail Tabs

The two Schema Manager tabs introduced with version 4.5.3 provide the following:

- The **Summary** tab displays a graphic representation of the e\*Gate components for the schema that is currently open. Users can perform certain administrative functions, such as viewing log files or setting logging levels and debugging flags, by right-clicking the icons on this tab (rather than returning to the Schema Designer).
- The **Detail** tab displays the components of the schema that is currently open in a tree structure.

#### Documentation Resource

For more information about the Schema Manager enhancements, see the following:

- The *Using the Summary Tab to Access the Proxy e\*Way and the e\*Gate 3.6 e\*Way* section of the *Communication Client Proxy e\*Way Intelligent Adapter User's Guide*
- The *Using the Detail Tab* section of the *e\*Gate Integrator Alert and Log File Reference Guide*

Also, see the Schema Manager online Help.

### 3.2.4 e\*Way Editor

#### Retrieve New Parameters

The e\*Way Editor's Retrieve New Parameters functionality allows you to automatically add new parameters to an e\*Way configuration file. When you select this option, the e\*Way Configuration Editor reads the e\*Way's .def file and adds any new parameters from it to the current e\*Way configuration file.



### Documentation Resource

For more information about this functionality, see the *Modifying the e\*Way Parameters Settings* section of the *e\*Gate Integrator User's Guide*.

## 3.2.5 Event Type Definitions (ETD)

### ETD Tester interface changes

The ETD Tester interface now includes the following items:

- **Display hidden characters** checkbox
- **Legend** button

These allow the user to view and determine the definition of non-printable characters within the ETD Tester interface. This additional information allows the user to better determine whether or not the data was processed correctly.

### Documentation Resource

For more information about the ETD Tester, see the *Validating an ETD* section of the *e\*Gate Integrator User's Guide*.

### “Standard ETD” becomes “Custom ETD”

This name change applies to ETDs and to the Standard ETD wizard (which is now called the “Custom ETD wizard”).

### Documentation Resource

For more information about the Custom ETD, see the *Building the ETDs* section of the *e\*Gate Integrator User's Guide*.

## 3.2.6 Collaborations

### Collaboration Scheduling

For Collaborations associated with Multi-Mode e\*Ways that use Java Collaboration Service (JCS), you can establish run schedules that execute the associated Collaboration Rule at the interval you specify.

### Documentation Resource

For more information about Collaboration scheduling, see the *Collaboration Run Schedules* section of the *e\*Gate Integrator User's Guide*.

### enableSaveInboundImage() method

The **enableSaveInboundImage()** method can be used to reduce the memory footprint of a message and save memory space. Calling this method from within the **userInitialize()** method of a Java Collaboration will allow calls to the **rawInput()** method in **executeBusinessRules()**.

**Note:** Collaborations that use `rawInput()` in previous versions will have to be modified to call `enableSaveInboundImage()` and recompiled.

### Documentation Resource

The Javadocs contain more detailed information about this method.

## Collaboration Editor enhancements

The Collaboration Editor contains the following enhancements:

- The “Break” feature, which allows you to break out of loops in Collaborations
- The ability to concurrently select, drag, and drop multiple Rules in the Business Rules pane
- A more descriptive default name for a new Business Rule (including the action, source, and destination)
- The ability to copy Rules between multiple running instances of Collaboration Editor

### Documentation Resource

For more information about the Collaboration Editor, see the *Java Collaboration Rules Editor Overview* section of the *e\*Gate Integrator User’s Guide*.

## 3.2.7 Java Messaging Service (JMS) Intelligent Queue (IQ) Manager

**Note:** For information about JMS IQ Event processing enhancements, see “[Event Processing](#)” on page 20.

### Journaling

The JMS IQ Manager now includes a journaling service, which features the following:

- **Journaling:** The JMS server sends messages to the Journaler about each message published (committed) to JMS. An administrative interface is provided to view (but not edit) journal messages.
- **Republishing:** The journaling service includes a mechanism that allows you to republish a range of messages.
- **Archiving:** Expired journal messages are stored in an archive database for later retrieval and review.
- **Importing:** The import feature allows you to retrieve messages from the archive.

**Note:** Journaling and archiving are also available for Standard IQs. Note that these functions operate differently in Standard IQs than they do in JMS IQs.

### Documentation Resource

For more information about journaling for JMS IQs, see the *Journaling Events* section of the *Oracle SeeBeyond JMS Intelligent Queue User’s Guide*.

## Default Configuration checkbox

You can now select a default configuration for JMS IQ Managers by selecting the Default Configuration checkbox in the IQ Manager properties dialog box. This setting is selected by default.

### Documentation Resource

For more information about the Default Configuration checkbox, see the *Creating JMS IQ Managers* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

## Binding to the Java Naming and Directory Interface™ (JNDI) from the JMS Administrator

If your enterprise uses a Java Naming and Directory Interface (JNDI) provider, you can now bind e\*Gate objects for JNDI lookup.

*Note:* For information from Sun about JNDI, see <http://java.sun.com/products/jndi/>.

### Documentation Resource

For more information about JNDI binding, see the *Binding Objects for JNDI Lookup* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

### 3.2.8 JMS Administrator

#### Lock Events

Locking a live topic or queue allows you to view or edit its messages through the JMS Administrator.

*Note:* Locking is now required before viewing or editing topics or queues. Make sure to unlock the topics and queues to allow subscribers to pick up the Events.

### Documentation Resource

For more information about locking Events, see the *Viewing and Editing Event Contents* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

#### User values

The Event properties shown in the JMS Administrator now include user properties defined for messages through JMS API functions.

### Documentation Resource

For more information about user values, see the *Viewing Event Properties* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

## 3.2.9 Intelligent Queue (IQ)

### Automated archiving and importing of messages

You can now set up automated archiving and importing of Standard IQ messages through the IQ Manager.

#### Documentation Resource

For more information about automated archiving and importing of Standard IQ messages, see the *Setting Up Event Archiving in Standard IQs* section of the *e\*Gate Integrator Intelligent Queue Services Reference Guide*.

## 3.2.10 Event Processing

### FIFO

First-in-first-out (FIFO) messaging support, regardless of publisher, has been incorporated for both Standard and JMS IQs as follows:

- If FIFO is enabled for a **Standard IQ**, a subscribing Collaboration retrieves the Events from the queue, compares the priorities of all Events received, and publishes the Event with the highest priority and oldest enqueue time, regardless of which Collaboration published the Event.
- If FIFO is enabled for a **JMS IQ**, a subscribing collaboration retrieves all Events from the queue, compares their enqueue times, and processes the oldest Event (without analyzing Event priorities). It then repeats the process (returning to the queue and retrieving all Events, comparing their enqueue times, and processing the oldest Event).

#### Documentation Resource

For more information about FIFO, see the following documents:

- For Standard IQs, see:
  - ♦ The *Multi-Mode e\*Ways* section (subsection: *Configuration File Characteristics*) of the *e\*Gate Integrator User's Guide*
  - ♦ The *Enabling Standard IQ First In, First Out Order* section of the *e\*Gate Integrator Intelligent Queue Services Reference Guide*
- For JMS IQs, see the *FIFO Event Delivery Order* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*

### Time-Based Sequencing

Time-based sequencing (TBS) applies to JMS topics and queues. Time-based sequencing specifies the order in which to process Event Types depending on the Events' commit times—the oldest Event first, the newest Event last. By default, Collaborations process Event Types on a first in, first out (FIFO) basis, but only for one Event Type within the same IQ Manager.

TBS uses an Event Type-based dependency system for processing events in a specific order. This dependency system is established by specifying a list of Event Types in order of priority for Event processing.

#### Documentation Resource

For more information about time-based sequencing, see the *Specifying Time-Based Event Delivery* section of the *Oracle SeeBeyond JMS Intelligent Queue User's Guide*.

### 3.2.11 Internationalization

For Japanese environments, support has been added for JEF, JIPS[E], and KEIS, with and without gaiji.

### 3.2.12 Javadocs

The Java methods used by the Collaboration Editor are documented in a collection of .html pages called Javadocs. Javadocs are an important reference for developers, providing hierarchical and descriptive information about the methods and classes that have been implemented.

You can view the e\*Gate Javadocs through your Web browser by launching the following file: `<eGate>\client\docs\javadocs\eGate\index.html`.

#### Documentation Resource

For more information about Javadocs, see the *e\*Gate Integrator User's Guide*.

# e\*Gate Integrator Add-ons

This chapter discusses new products and features added to e\*Gate Integrator add-ons since release 4.5.2, as well as changes to existing add-ons.

**Important:** *When conflicting information occurs, the information in [Chapter 2, “What’s New in This Release” on page 8](#) takes precedence over the information in this chapter. This chapter is provided only as a reference to changes made in earlier versions.*

*For information about the supported adapters, see [“Supported ICAN Suite Components” on page 11](#).*

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## 4.1 New Add-ons

### 4.1.1 Generic Multi-Mode e\*Way Extension Kit

The Generic Multi-Mode e\*Way Extension Kit enables you to develop custom Multi-Mode e\*Ways and e\*Way Connections using Java. You can use the Generic Multi-Mode e\*Way Extension Kit to create and deploy e\*Ways and e\*Way Connections to communicate with each of your existing IS systems, networks, and/or applications.

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## 4.2 Changes to Existing Products

### 4.2.1 e\*Gate Integrator Alert Agent

The e\*Gate Integrator Alert Agent now provides new startup and shutdown options, including a command line interface for starting and stopping the Alert Agent.

### 4.2.2 Batch e\*Way Intelligent Adapter

The Batch e\*Way Intelligent Adapter is now Java-enabled and includes many new features. These include:

- SSH (Secure Shell) tunneling to provide for secure login IDs and passwords. The e\*Way makes use of additional SSH-tunneling software for this functionality. SSH port forwarding ensures that the FTP command connection is protected.
- Data streaming, a means for interconnecting any two components of the e\*Way via a data stream channel. This channel provides a memory-efficient way of transferring the data between the Batch e\*Way components.
- Guaranteed Exactly Once Delivery (GEOD) of Events. Along with the e\*Gate system, the e\*Way guarantees exactly once delivery via utilization of the XA protocol, ensuring that no data is lost, and no unit of data is duplicated.
- ETD Extensibility, which allows the user to customize ETD operations by creating Java classes and optional Java properties files.

Also, the Monk version of the Batch e\*Way now supports z/OS, in addition to all previously supported operating systems.

### 4.2.3 e\*Way Intelligent Adapter for DB2 Universal Database

The e\*Way Intelligent Adapter for DB2 Universal Database now includes added support for connectivity to DB2 UDB residing on an AS/400 platform with DB2 Connect version 7.2 with FixPak 4, Service Level WR21270 JDBC and ODBC drivers. Enhanced support for Stored Procedure parameters has also been added, and the OTDs are now editable.

### 4.2.4 e-Mail e\*Way Intelligent Adapter

The e-Mail e\*Way, Java version, now includes added support for Japanese character encoding in both the header and message content of the e-mail message (for both plain and HTML text). File attachment names are converted to "B" encoding.

### 4.2.5 HL7 ETD Library

The HL7 ETD Library is now Java-enabled, supporting HL7 versions 2.1, 2.2, 2.3, and 2.3.1. Java ETDs can be modified using the Java ETD Editor. The Monk version continues to be supported for backward compatibility.

### 4.2.6 e\*Way Intelligent Adapter for JDBC/ODBC

The e\*Way Intelligent Adapter for JDBC/ODBC now provides additional support for Stored Procedure result sets in manual mode, and Stored Procedure parameters. The Monk based ODBC is bundled with the JDBC/ODBC e\*Way.

### 4.2.7 e\*Way Intelligent Adapter for ODBC

The e\*Way Intelligent Adapter for ODBC now supports the Korean version of HP-UX 11.0, in addition to all previously supported operating systems.

### 4.2.8 e\*Way Intelligent Adapter for Oracle

The e\*Way Intelligent Adapter for Oracle now provides support for Stored Procedure result sets, Stored Procedure reference cursors, and improved support for Stored Procedure parameters.

### 4.2.9 e\*Way Intelligent Adapter for SQL Server

The e\*Way Intelligent Adapter for SQL Server now provides support for Stored Procedure result sets, and improved support for Stored Procedure parameters.

### 4.2.10 SWIFT ETD Library

The SWIFT ETD Library is now Java-enabled. A Monk version continues to be supported for backward compatibility. The SWIFT ETD Library supports SWIFT 2010 Standard, in addition to all previously supported SWIFT messages.

### 4.2.11 e\*Way Intelligent Adapter for Sybase

The e\*Way Intelligent Adapter for Sybase now provides support for Sybase 12.5, Stored Procedure result sets, and improved support for Stored Procedure parameters.

### 4.2.12 e\*Way Intelligent Adapter for TCP/IP HL7

The e\*Way Intelligent Adapter for TCP/IP HL7 now provides support for current versions of the HL7 standard. Also, this product now supports HP NonStop Server G06.22, in addition to all previously supported operating systems.