SUN SEEBEYOND

eGATE™ INTEGRATOR RELEASE NOTES

Release 5.1.1

Sun microsystems

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Contents

Chapter 1

Introduction

This chapter describes the new features in this release of Sun SeeBeyond eGate™ Integrator, the scope and organization of this document, and provides references to additional sources of relevant information.

What's in This Chapter

1.1 About eGate Integrator

eGate Integrator is a distributed integration platform that serves as the foundation of the Sun Java™ Composite Application Platform Suite. The user interfaces — Sun SeeBeyond Enterprise Designer for Project design and Sun SeeBeyond Enterprise Manager for system management and monitoring — ensure a unified look and feel across all editors in the suite, with a single sign-on process for access to any product.

The run-time environment, which is J2EE™-compatible and certified, features high performance and dynamic scalability. The architecture uses Enterprise JavaBeans (EJBs) with Java™ Message Service (JMS) and Java™ Naming and Directory Interface (JNDI).

1.2 Related Documents

The following Sun documents provide additional information about the eGate Integrator system as explained in this guide:

- *Sun Java™ Composite Application Platform Suite Installation Guide*
- *Sun Java™ Composite Application Platform Suite Primer*
- *Sun SeeBeyond eGate™ Integrator JMS Reference Guide*
- *Sun SeeBeyond eGate™ Integrator System Administration Guide*
- *Sun SeeBeyond eGate™ Integrator User's Guide*
- *Sun SeeBeyond eGate™ Integrator Tutorial*

For information on a specific add-on product (for example, an eWay Intelligent Adapter), see the User's Guide for that product. A complete list of Sun Java™ Composite Application Platform Suite documentation is included in the *Sun Java™ Composite Application Platform Suite Primer*.

The documentation for the Sun Java™ Composite Application Platform Suite is distributed as a collection of online documents, which can be accessed through the Enterprise Manager (see the *Sun Java™ Composite Application Platform Suite Installation Guide*). These documents are in Adobe Acrobat format, which requires that Acrobat Reader be installed on your computer. Acrobat Reader can be from Adobe Systems as a free download from the following URL:

http://www.adobe.com

1.3 Sun Microsystems, Inc. Web Site

The Sun Microsystems web site is your best source for up-to-the-minute product news and technical support information. The site's URL is:

http://www.sun.com

1.4 Documentation Feedback

We appreciate your feedback. Please send any comments or suggestions regarding this document to:

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Chapter 2

About eGate Integrator

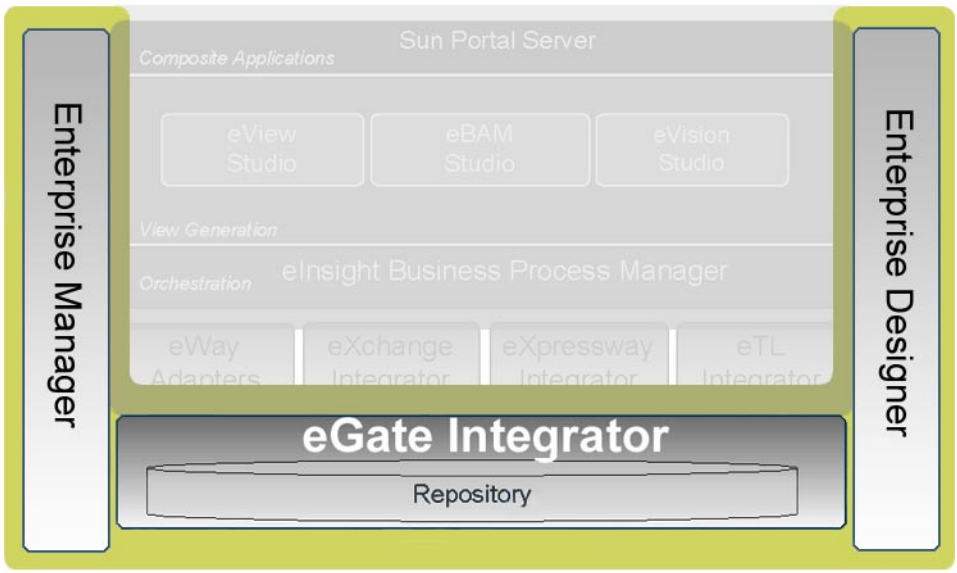
This chapter discusses features in eGate Integrator 5.1.1.

What's in This Chapter

2.1 Introduction

Sun SeeBeyond eGate Integrator is a fully J2EE-certified, web services-based integration platform that serves as the foundation of the Sun Java™ Composite Application Platform Suite. It provides the core integration function, incorporating comprehensive systems connectivity, guaranteed messaging, and robust transformation capabilities. eGate Integrator also provides a unified, single sign-on environment for integration development, deployment, monitoring and management.

Figure 1 eGate Integrator



As shown in Figure 1, the heart of eGate Integrator is the Repository, which is a comprehensive store of information common to the entire Sun Java™ Composite

Application Platform Suite. A separate UDDI registry allows publication and discovery of web services.

The run-time environment employs J2EE-compatible integration servers as operational engines and JMS-compatible message servers for the propagation of messages. The flexibility of the eGate Integrator system allows the option of deployment to a run-time environment extending across a distributed network of hardware platforms.

Enterprise Manager provides a unified, browser-based framework for managing all aspects of the run-time environment, as well as installing and updating all Sun Java™ Composite Application Platform Suite components. Enterprise Designer provides a unified, graphical development environment for integrating systems and developing composite applications using web services.

eGate Integrator can communicate with and link multiple applications and databases across a variety of different operating systems. eGate Integrator performs with a wide variety of hardware, message standards, operating systems, databases, and communication protocols in both real-time and batch (scheduled) integration modes.

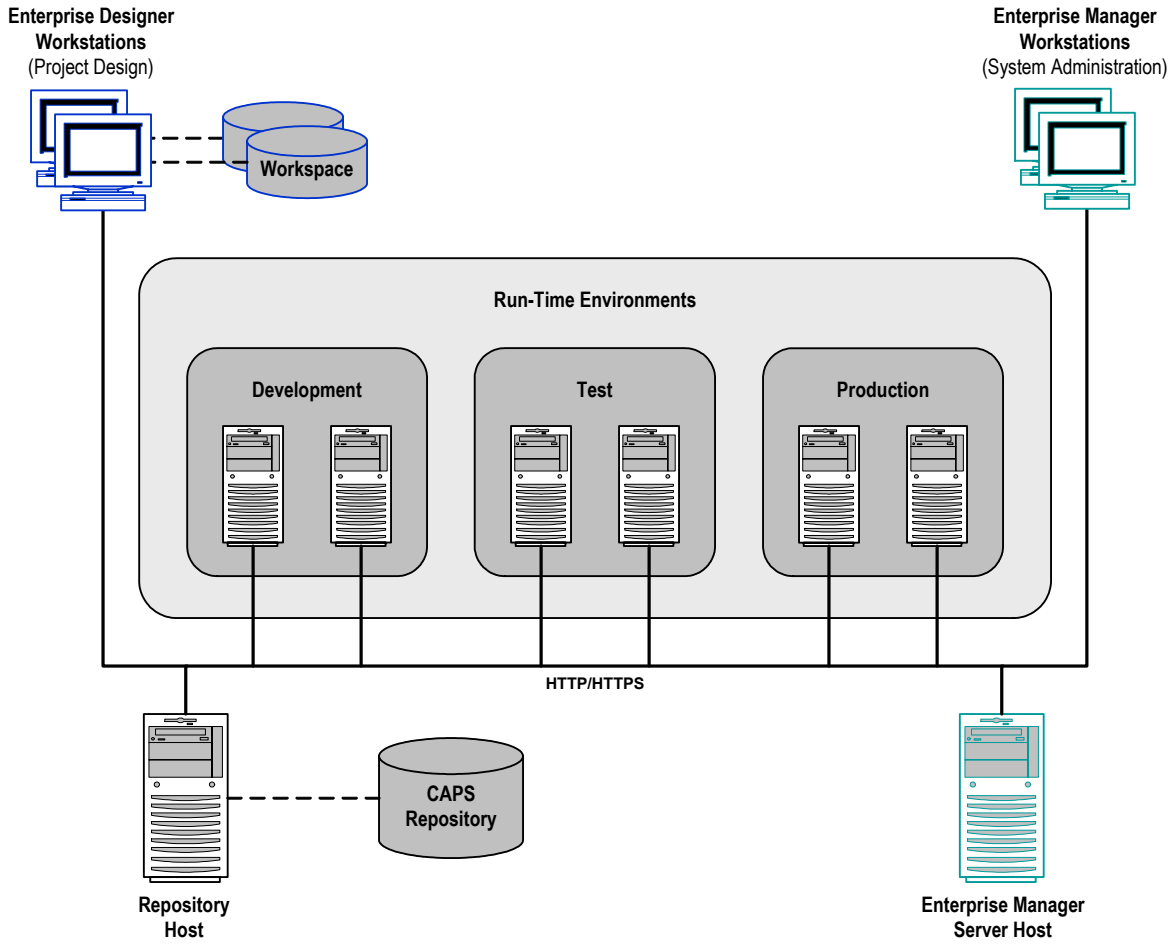
2.2 System Architecture

2.2.1 Overview

eGate Integrator employs a versatile architecture that is ideally suited to distributed computing environments. As a result, the various components of an eGate Integrator system can reside on the same hardware platform (assuming adequate system resources), or be distributed across several different hardware platforms in the enterprise network.

Figure 2 shows an example of a distributed system implementation having six separate run-time servers in addition to the Repository server and, optionally, an Enterprise Manager server. Each run-time server can host multiple domains, each consisting of an application server-message server pair.

Figure 2 Distributed eGate Integrator System



Note: *This scenario assumes that all instances of eGate Integrator are of the same release.*

2.2.2 Repository

The setup, components, and configuration information for the elements of a Project are stored in the Repository. As shown in Figure 2, a single Repository serves the entire enterprise—this common Repository is used for development, testing, and production purposes. Communication between the Repository and other Sun Java™ Composite Application Platform Suite components can be configured to use either HTTP or HTTPS. The Enterprise Designer and Enterprise Manager clients can communicate with the Repository through a firewall.

Note: *The eGate run-time components, which include domains (instances of Logical Hosts) and any Projects or components deployed to them, provide their full functionality independent of the Repository.*

2.2.3 Run-Time Environments

An Environment represents the total system required to implement a Project. It consists of a collection of Logical Hosts, capable of hosting components of the Sun Java™ Composite Application Platform Suite, along with information about external systems involved in the implementation.

- **Logical Hosts**
  Each Environment contains one or more system definitions. Each definition must include one or more **application servers** such as the Sun SeeBeyond Integration Server, which are the engines that run Collaborations and eWays, and one or more **message servers** such as the Sun SeeBeyond JMS IQ Manager, which manage JMS topics (publish-and-subscribe messaging) and queues (point-to-point messaging). Each collection of integration servers and message servers, plus additional software modules, comprise what is known as a *Logical Host*. The run-time instance of a Logical Host is known as a *domain*.
- **External Systems**
  An external system is a representation of a real, physical system that exists within the specific Environment, with configuration properties for locating and accessing that system.

In the example system shown in Figure 2, the production environment is split across two hardware platforms. Separate environments for development and testing should duplicate the structure of the production environment. The test environment should be supported by hardware similar to that supporting the production environment, to allow performance and load testing to give representative throughput results. The hardware supporting the development environment, however, does not usually have the same performance requirements as that supporting the test and production environments.

An integration Project is created within the development environment, then migrated to the test environment, and finally to the production environment. This migration path is a necessary and highly critical practice in implementing a working system.

Note again that there is no requirement for the components shown in Figure 2 to run on separate systems; all could run on a single system, provided that resources (processing, memory and storage) are sufficient to support concurrent usage.

Chapter 3

What's New in This Release

This chapter discusses eGate Integrator features that are new in Release 5.1.1.

What's in This Chapter

3.1 Architecture and Compatibility

New features related to architecture and compatibility include:

- Additional operating system support for UDDI Registry.
- In-place upgrade installation from 5.1.0 to 5.1.1 for the following modules:
  - Repository
  - UDDI Registry
  - Enterprise Manager
  - Logical Host

For information regarding operating system and language support, please refer to the *Sun Java™ Composite Application Platform Suite Installation Guide*.

3.2 Performance

New features related to performance include:

- Numerous refinements to provide improved run-time performance.

3.3 Web Services

New features related to Web Services include:

- "Save As" functionality for WSDL Objects and XSD Objects.
- Ability to build a web service client or server based on a Collaboration Definition (Java) employing an XSD Node to provide the input and output messages.

3.4 Enterprise Manager

New features related to Enterprise Manager include:

- Ability to deploy Projects to BEA WebLogic Server 9.1.
- Ability to manage and monitor Projects deployed to BEA WebLogic Server 9.1.

3.5 Enterprise Designer

New features related to Enterprise Designer include:

- Enhancements and refinements to the user interface, including menus, menu options, icons and keyboard shortcuts.
- Support for running commandline codegen on Linux and Solaris, and from a remote host.

3.6 Documentation

New features related to eGate Integrator documentation include:

- Reorganized eGate Integrator User's Guide.