BEA WebLogic Integration™

Writing Messages to the B2B Integration Log

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About This Document

This document describes how to write messages to the B2B integration log.

What You Need to Know

This document is intended primarily for:

- Business process designers who use the WebLogic Integration Studio to design workflows that can be integrated with the WebLogic Integration environment.
- Application developers who write Java applications that manage the exchange of business messages or monitor run-time statistics in the WebLogic Integration environment.
- System administrators who set up and administer WebLogic Integration applications.

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In your e-mail message, please indicate which release of the product and documentation you are using.

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When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address

- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.

`monospace text`	Indicates code samples, commands and their options, data structures and their members, data types, directories, and filenames and their extensions. Monospace text also indicates text that you must enter from the keyboard.
	Examples:
	`#include <iostream.h> void main ( ) the pointer psz`
	`chmod u+w *`
	`\tux\data\ap`
	`.doc`
	`tux.doc`
	`BITMAP`
	`float`

`monospace boldface text`	Identifies significant words in code. *Example*: `void` **`commit`** `( )`
`monospace italic text`	Identifies variables in code. *Example*: `String` *`expr`*

Convention	Item
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. *Example*s: LPT1 SIGNON OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[ ]	Indicates optional items in a syntax line. The brackets themselves should never be typed. *Example*: `buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...`
|	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
. . .	Indicates one of the following in a command line: ■ That an argument can be repeated several times in a command line ■ That the statement omits additional optional arguments ■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. *Example*: `buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...`
. . .	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

CHAPTER

1 Writing to the Log

The following sections describe how to write messages to the B2B integration log:

- About the Log
- Writing Messages to the Log

About the Log

The B2B engine uses the Logging API to write error, warning, and information messages to a log file.

Log Files

Logged messages are written to the following locations:

- WebLogic Integration system log file (`b2b.log`) and the WebLogic Integration B2B Console (if it is running)
- WebLogic Server log file (`weblogic.log`) and the WebLogic Server Administration Console (if it is running)

The `b2b.log` system log file is created automatically when WebLogic Integration starts up. The size of this file is limited to 1MB. When this maximum is exceeded, the file is renamed with a numeric label (such as `b2b1.log`) and a new empty file is created.

Logging API

The `com.bea.eci.logging` package contains the Logging API, which consists of the classes described in the following table.

Table 1-1 Logging API

Name	Description
`Log`	Defines severity levels for log messages.
`UserLog`	Represents a user log. Provides access to the log for users. The user log is defined as a user log output stream (with a `<user>` tag) in the system log.

For detailed information about these classes, see the *BEA WebLogic Integration Javadoc*.

Severity Levels

The `Log` class defines the severity levels described in the following table.

Table 1-2 Severity Levels Defined in Log Class

Level	Severity	Indicates an occurrence of . . .
1	`FATAL`	A fatal error; a system component failed abnormally due to the exception that was detected.
2	`ERROR`	A critical error; system stability is affected.
3	`WARNING`	A minor exception; normal operation or system stability may not be affected.
4	`INFO`	No exception or failure; indicates only a message reporting normal operations, not exception conditions. An example of such a message is logging the successful startup of the WebLogic Integration B2B Console.

Writing Messages to the Log

WebLogic Integration applications can write messages to the log using the `log` method in the `UserLog` class. The log method records a message in the user log and does one of the following:

- Specifies the level of severity as `FATAL`, `ERROR`, `WARNING`, or `INFO`.
- Does not specify the level of severity, which then defaults to `INFO`.

In addition, applications can access the print stream to the user log using `UserLog.out`.

Importing the Logging Package

To write to the log, WebLogic Integration applications must import the `com.bea.eci.logging` package, as shown in the following listing.

Listing 1-1 Importing the com.bea.eci.logging Package

```
import com.bea.eci.logging.*;
```

Writing a Log Message with an INFO Severity Level

To write a log message with an `INFO` severity level, an application can use the following version of the `log` method:

```
static void log(java.lang.String userMsg)
```

In the preceding line, `userMsg` is the message text to be logged.

When you use this version of the log method, the severity in the log defaults to INFO. The following listing shows how to write a log message with an INFO severity level.

Listing 1-2 Writing an INFO Message to the Log

```
private static void debug(String msg){
    if (DEBUG)
      UserLog.log("***Partner1Servlet: "+msg);
}
```

Writing a Message with a Specific Severity Level

To write a log message with a specific severity level, an application uses the following version of the log method:

```
static void log(int severity, java.lang.String userMsg)
```

In the preceding line:

- severity is the severity level (FATAL, ERROR, WARNING, or INFO).
- userMsg is the message text to be logged.

The following listing shows how to write a log message with a `WARNING` severity level.

Listing 1-3 Writing a WARNING Message to the Log

```
private static void debug(String msg){
   if (DEBUG)
      UserLog.log(Log.WARNING, msg);
}

try {
   }catch(Exception e){
      debug("Partner1 exception errors");
      e.printStackTrace(UserLog.out);
}
```

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