

# IBM WebSphere Extreme Scale V8.6

## Logging features of the .NET client



© 2013 IBM Corporation

This presentation describes the logging features of the .NET client that is included in IBM WebSphere® Extreme Scale version 8.6.

## Log entries are written to multiple files

### Always enabled:

- SystemOut.log -- Contains translated messages
- SystemErr.log -- Contains error and unrecoverable failure entries
- SystemFirstFailure.log -- Contains error and failure first occurrence information
- WXSEventLog -- Contains unrecoverable failure log entries

### Disabled by default:

- Colored Console -- Displays all log entries
- SystemTrcLog -- Contains all log entries, including debug and trace

The .NET client writes log messages to several different log files. SystemOut.log contains translated messages of types Failure, Error, Warning, and Informational. SystemErr.log contains translated Failure and Error messages. SystemFirstFailure.log contains non-translated first failure information for failures and errors. WXSEventLog is a Windows Event Log and contains only failure entries.

SystemTrcLog and Colored Console contain all log entries. But these are not enabled by default. If you need to enable them, contact IBM Level 2 Support.

## Log location

- Specified in the breadcrumb file that was created during installation
  - Breadcrumb file location:  
`windows\system32\drivers\etc\IBM.Websphere.Caching_v8600.txt`
  - Sample breadcrumb file contents:  
`InstallDir=C:\XS86\Client`  
`ConfigDir=C:\XS86\Client\config`  
`LogDir=C:\XS86\Client\logs`
- If no breadcrumb file (product not installed or breadcrumb file missing), then log files located in current directory

The .NET client writes these log files to the location that you specified during installation or, if the installation information is unavailable, to the current directory.

## Components of a log entry

### Example log entry:

```
[11/15/12 22:09:06.290250-05:00] 00000009 Client.Xio.LocationServiceWrapper I CWOBJ2521I:
The catalog server bootstrap addresses changed from localhost:2809 to
xdblade07b14.rtp.raleigh.ibm.com:2809.
```

### Components:

- Time stamp
  - Example: [11/15/12 22:09:06.290250-05:00]
  - The offset from GMT (-05:00 in this example) indicates the time zone
  - Located in same position as in WebSphere eXtreme Scale Java log entries
- Thread ID
  - Example: 00000009
  - Located in same position and same number of characters as in WebSphere eXtreme Scale Java log entries
- Class name
  - Example: Client.Xio.LocationServiceWrapper
  - Name of source code class that wrote the log entry
  - Located in same position as in WebSphere eXtreme Scale Java log entries, but 36 characters, rather than 13
- Message type
  - Example: I
  - F=Failure, E=Error, W=Warning, I=Informational, D=Debug, T=Trace
  - Located in same position and same number of characters as in WebSphere eXtreme Scale Java log entries
  - T >Ent: = Trace, Method Entry, T <Ext: = Trace, Method Exit
- Message
  - Example: CWOBJ2521I: The catalog server bootstrap addresses changed from localhost:2809 to xdblade07b14.rtp.raleigh.ibm.com:2809.

The .NET client uses a log entry format that is similar to WebSphere eXtreme Scale Java Client. The first component of the log entry is the time stamp, followed by the thread ID, the originating class name, the message type and finally the message.

At the end of the timestamp is the offset from Greenwich Mean Time. In this example, the minus five indicates the Eastern Time Zone.

The message type field is one of six types: F for Failure, E for Error, W for Warning, I for Informational, D for Debug, or T for Trace. If the message type is Failure, Error, Warning, or Informational, then the message is translated. The Debug and Trace message types are not translated and are not normally enabled for performance reasons. If you need to enable these for problem analysis, contact IBM Level 2 Support.

The Trace message type supports two subtypes, Method Entry and Method Exit. These are indicated by a prefix to the actual message, T>Ent: for Method Entry or T<Ext: for Method Exit.



## Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

[mailto:iea@us.ibm.com?subject=Feedback\\_about\\_XS86\\_NET\\_Logging.ppt](mailto:iea@us.ibm.com?subject=Feedback_about_XS86_NET_Logging.ppt)

This module is also available in PDF format at: [../XS86\\_NET\\_Logging.pdf](..../XS86_NET_Logging.pdf)

You can help improve the quality of IBM Education Assistant content by providing feedback.



## Trademarks, disclaimer, and copyright information

IBM, the IBM logo, ibm.com, and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at <http://www.ibm.com/legal/copytrade.shtml>

Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2013. All rights reserved.