## Log4Net, how to add a custom field to my logging

Ask Question



I use the log4net.Appender.AdoNetAppender appender.

My log4net table are the following fields [Date],[Thread],

88 [Level],[Logger],[Message],[Exception]



I would need to add another field to the log4net table (e.g SalesId), but how would I specify in my xml and in code to log the "SalesId" when logging a Error or Info message?



e.g. log.Info("SomeMessage", SalesId)

Here's the log4net xml

```
</parameter>
  <parameter>
    <parameterName value="@log level" />
   <dbType value="String" />
   <size value="50" />
   <layout type="log4net.Layout.PatternLayout">
      <conversionPattern value="%level" />
   </layout>
  </parameter>
  <parameter>
   <parameterName value="@logger" />
   <dbType value="String" />
   <size value="255" />
   <layout type="log4net.Layout.PatternLayout">
      <conversionPattern value="%logger" />
   </layout>
  </parameter>
  <parameter>
   <parameterName value="@message" />
   <dbType value="String" />
   <size value="4000" />
   <layout type="log4net.Layout.PatternLayout">
      <conversionPattern value="%message" />
   </layout>
  </parameter>
  <parameter>
   <parameterName value="@exception" />
   <dbType value="String" />
   <size value="2000" />
   <layout type="log4net.Layout.ExceptionLayout" />
  </parameter>
</appender>
  log4net
           appender
```

asked Aug 27 '12 at 9:36



## 3 Answers



[Thread],[Level],[Logger],[Message],[Exception],
[MyColumn]) VALUES (@log\_date, @thread, @log\_level,
@logger, @message, @exception, @CustomColumn)



2) Add the parameter definition for the custom column:



3) Then use one of log4net's contexts to transfer values to the parameter:

answered Aug 27 '12 at 10:27



- 2 Can someone suggest which Context is best for logging browser capabilities. – VivekDev Mar 10 '15 at 12:20
- 1 @DumbDev, usually you will use the Thread context. The GlobalContext is useful to set properties that do not change very often. Marcelo De Zen Mar 10, 115 at 19:06

the ThreadContext will not be moved along with it. – Robba Jan 26 '16 at 8:59

- 3 @theberserker LogicalThreadContext is ok to use with Tasks, It's not ok to use ThreadContext though, because it's always bounded to a particular thread. Marcelo De Zen Jun 9 '16 at 16:07
- It's my opinion, but it seems a bit weird this way, I expected an overload that takes more arguments to add to the new LoggingEvent instance.. A77 Jul 12 '17 at 10:08



Three types of logging context available in Log4Net.





- Log4Net.GlobalContext: This context shared across all application threads and domains. If two threads set the same property on GlobalContext, One Value will override the other.
- Log4Net.ThreadContext: This context scope limited to calling thread. Here two threads can set same property to different values without overriding to each other.
- 3. Log4Net.ThreadLogicalContext :- This context behaves similarly to the ThreadContext. if you're working with a custom thread pool algorithm or hosting the CLR, you may find some use for this one.

Add the following code to your program.cs file:

```
static void Main( string[] args )
{
    log4net.Config.XmlConfigurator.Configure();
    log4net.ThreadContext.Properties[ "myContext" ] = "Log;
    Log.Info( "this is an info message" );
    Console.ReadLine();
}
```

2) Add the parameter definition for the custom column:

answered Jul 26 '18 at 16:18





0

Here is a working version with some personalized preferences. I added a custom column for storing a generated exception code.



1) Add your custom column(exceptionCode here) to Log4net config:

```
<commandText value="INSERT INTO Log([Date],[Thread],[Level
[Exception],[ExceptionCode])
VALUES (@log_date, @thread, @log_level, @logger, @message,
/>
```

```
<size value="11" />
     <layout type="Common.Utils.LogHelper.Log4NetExtentedLog</pre>
         <conversionPattern value="%exceptionCode{Code}" />
     </layout>
 </parameter>
2) Log4NetExtentedLoggingCustomParameters.cs
 namespace Common.Utils.LogHelper
     public class Log4NetExtentedLoggingCustomParameters
         public string ExceptionCode { get; set; }
         public string Message { get; set; }
         public override string ToString()
             return Message;
3) Log4NetExtentedLoggingPatternConverter.cs
 namespace Common.Utils.LogHelper
     public class Log4NetExtentedLoggingPatternConverter : |
         protected override void Convert(TextWriter writer,
             if (state == null)
                 writer.Write(SystemInfo.NullText);
                 return;
             var loggingEvent = state as LoggingEvent;
             var messageObj = loggingEvent.MessageObject as
 Log4NetExtentedLoggingCustomParameters;
             if (messageObj == null)
```

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```
switch (this.Option.ToLower()) //this.Optic
                                                                                        case "code": //config conversionPatter
     %exceptionCode{Code}
                                                                                                       writer.Write(messageObj.ExceptionCompared to the compared to the compared
                                                                                                       break;
                                                                                        default:
                                                                                                       writer.Write(SystemInfo.NullText);
                                                                                                       break;
                                      }
4) Log4NetExtentedLoggingPatternLayout.cs
     namespace Common.Utils.LogHelper
                     public class Log4NetExtentedLoggingPatternLayout : Pat
                                      public Log4NetExtentedLoggingPatternLayout()
                                                       var customConverter = new log4net.Util.Convert
                                                                      Name = "exceptionCode",
                                                                      Type = typeof(Log4NetExtentedLoggingPatter)
                                                       };
                                                       AddConverter(customConverter);
5) Logger.cs // Enjoy your logger with new column! :)
     namespace Common.Utils.LogHelper
                     public class Logger
                                      static ILog Logger =
```

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## references:

http://blog.stvjam.es/2014/01/logging-custom-objects-and-fields-with

edited May 25 '18 at 7:38

answered May 25 '18 at 7:33



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