

## Recneps Webservice Appender

### Introduction

This document provides instructions about the use of the Recneps Log4Net Webservice Appender.

### Installation

Add the Recneps.Logging.dll to your application bin directory.

### Configuration

To configure a Recneps Webservice appender, add the following to your log4net configuration.

```
<appender name="WebServiceAppender"
  type="Recneps.Logging.WebServiceAppender, Recneps.Logging">
  <param name="Url"
    value="http://www.recneps.co.uk/webservices/logging/log.php"/>
  <param name="Threshold" value="Error" />
  <param name="ApplicationName" value="MyTestApplicaion" />
</appender>
```

Note: you need to change the Url param to point to your webservice.

### Web Service Specification

#### *.Net*

The following c# code will create a .Net webservice that that is compatible with the Recneps Log4Net webservice appender and logs to a mySQL database.

```
using MySql.Data.MySqlClient;

[WebMethod]
public bool LogMsg(string applicationname,
                  string id,
                  string timestamp,
                  string threadName,
                  string level,
                  string loggerName,
                  string message)
{
    bool bRet = true;
    MySqlConnection sqlConnection = null;
    try
    {
        string LoggingConnectionString = "";
        // get the connection string from web.config
        LoggingConnectionString =
            System.Configuration.ConfigurationManager.AppSettings.Get("ConnectionSt
            ring");

        if (LoggingConnectionString != null && LoggingConnectionString.Length > 0)
        {
            sqlConnection = new MySqlConnection(LoggingConnectionString);
            sqlConnection.Open();
            string insertSql = string.Format("Insert into logs (appname, logger,
                logtimestamp, threadName,
                loglevel, loggerName,message)
                Values ('{0}', '{1}', '{2}', '{3}',
                    '{4}','{5}','{6}'),
                    applicationname,
```

```

        id,
        timestamp,
        threadName,
        level,
        loggerName,
        message);

        MySqlCommand command = new MySqlCommand(insertSql);
        command.Connection = sqlConnection;
        command.ExecuteNonQuery();
    }
    else
    {
        bRet = false;
    }
}
catch (Exception ex)
{
    System.Diagnostics.Trace.WriteLine(string.Format("LogMsg Exception {0}",
ex.Message));
    bRet = false;
}

if (sqlConnection != null)
{
    sqlConnection.Close();
}

return bRet;
}

```

## PHP

To create a php webservice use the NuSoap library  
(see <http://dietrich.ganx4.com/nusoap/>)

The following php configures a webservice that is compatible with the Recneps Log4Net webservice appender and logs to a mySQL database.

```

<?php
require_once('../nusoap/nusoap.php');
$server = new soap_server;
// Initialize WSDL support
$server->configureWSDL('Loggingwsdl', 'urn:Loggingwsdl');
// Register the method to expose
$server->register('LogMsg', // method name
    array('applicationname' => 'xsd:string',
        'id' => 'xsd:string',
        'timestamp' => 'xsd:string',
        'threadName' => 'xsd:string',
        'level' => 'xsd:string',
        'loggerName' => 'xsd:string',
        'message' => 'xsd:string', // input parameters
    array('return' => 'xsd:string', // output parameters
        'urn:Loggingwsdl', // namespace
        'urn:Loggingwsdl#LogMsg', // soapaction
        'rpc', // style
        'encoded', // use
        'Logs the Specific Message'); // documentation

$server->service($HTTP_RAW_POST_DATA);

function LogMsg($name,
    $sid, $timestamp, $threadName, $level, $loggerName, $message)

```

```

{
    // open the db connection and set the Key for the specific id
    $db = mysql_connect('yourDatabaseServerName',
                        'yourUserName',
                        'yourPassword');

    mysql_select_db('yourDatabaseName');

    $query = "Insert into `logs` (name, id, timestamp,
                                threadName, level, loggerName, message)
            VALUES ('.$name.', '$id.', '$timestamp.', '$
                .$threadName.', '$level.', '$loggerName.', '$
                .$message.')" ;
    mysql_query($query);
    mysql_close($db);
}
?>

```

## **SQL**

The SQL to create the mySQL database is as follows:

```

CREATE TABLE `logs` (
  `name` varchar(50) default NULL,
  `logid` bigint(20) NOT NULL auto_increment,
  `id` varchar(50) default NULL,
  `timestamp` varchar(30) default NULL,
  `threadName` varchar(50) default NULL,
  `level` varchar(10) default NULL,
  `loggerName` varchar(50) default NULL,
  `message` text,
  PRIMARY KEY (`logid`)
) TYPE=MyISAM AUTO_INCREMENT=133 ;

```