BEA Systems SAS.

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WLSLogReport

Quick Start

Use of WLSLogReport tool

LOG

Last Modification

23/04/2008

Historique

Revision	Date	Author	Changes
1.0	23/04/2008	J.FRANCOIS	Initial Version

1 CONTENTS

2 INSTALLATION

The requirement for the tool is :

- ✓ **JVM [1.4.X or later]**

2.1 Tool Configuration

Modify the file : `conf\setEnv.[sh/bat]`.

JAVA_HOME	*JAVA directory installation*
WLSLOGREPORT_HOME	*directory installation for the tool*

2.2 Launch tool : `WLSLogReport`

The `WLSLogReport.[Version WLS].[bat/sh]` command take as input parameters files or directory of `WLS` log to analyzed. It can be :

- ✓ **A file**
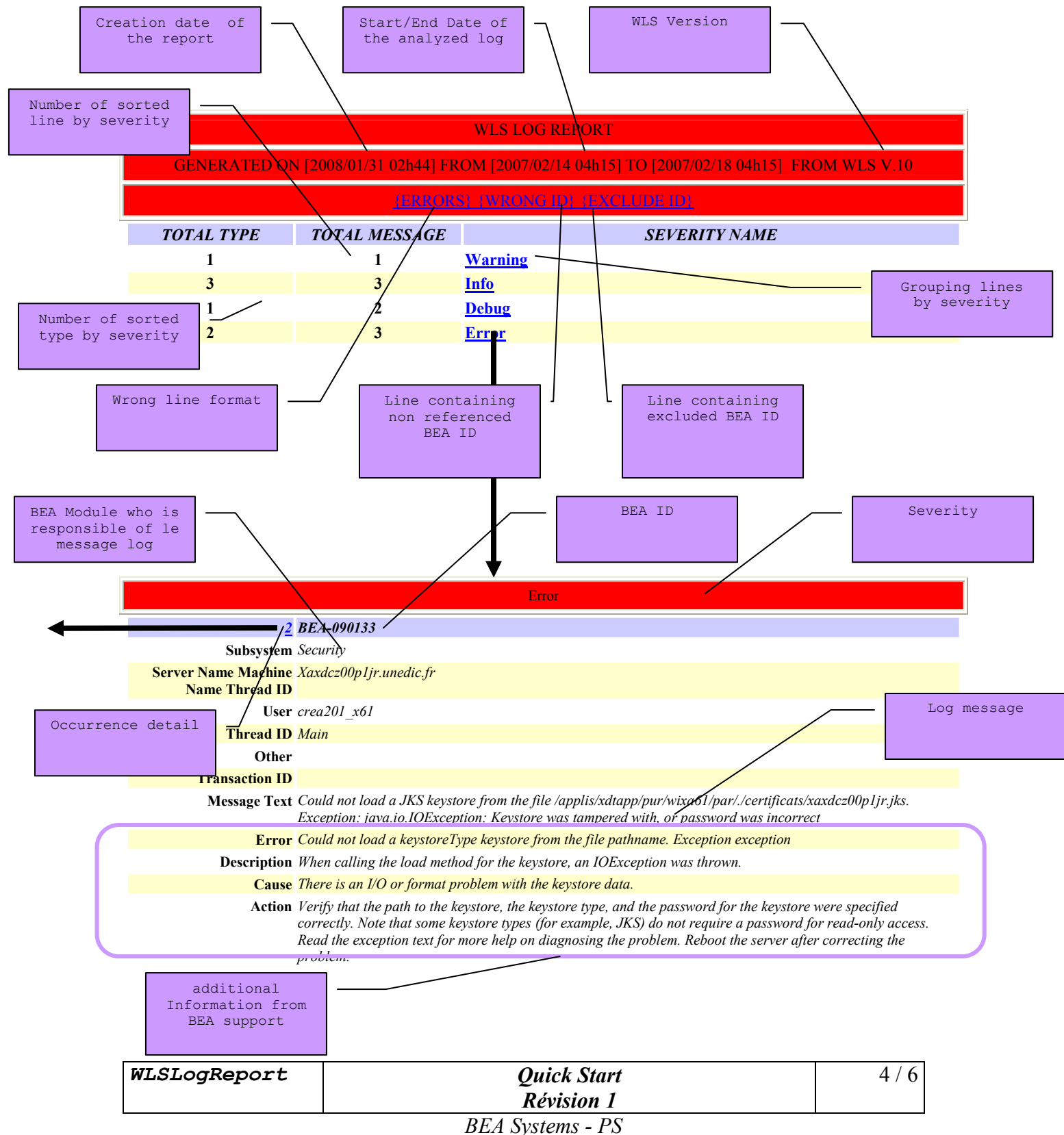- ✓ **A list of files**
- ✓ **A directory**
- ✓ **A list of directory**

(the separator list is a comma)
```
WlsLogReport.${version WLS}.[bat/sh] /home/logs
WlsLogReport.${version WLS}.[bat/sh] /home/logs/serveur1.log, /home/logs/serveur2.log
```

2.3 Report

An output directory report is generated with the name `document_root`. The first entry point of the report is `index.html`

Creation date of the report

Start/End Date of the analyzed log

WLS Version

Number of sorted line by severity

WLS LOG REPORT

GENERATED ON [2008/01/31 02h44] FROM [2007/02/14 04h15] TO [2007/02/18 04h15] FROM WLS V.10

{ERRORS} {WRONG ID} {EXCLUDE ID}

TOTAL TYPE	TOTAL MESSAGE	SEVERITY NAME
1	1	**Warning**
3	3	**Info**
1	2	**Debug**
2	3	**Error**

Grouping lines by severity

Number of sorted type by severity

Wrong line format

Line containing non referenced BEA ID

Line containing excluded BEA ID

BEA Module who is responsible of le message log

BEA ID

Severity

Error

2 ***BEA-090133***

Subsystem	*Security*
Server Name Machine Name Thread ID	*Xaxdcz00p1jr.unedic.fr*
User	*crea201_x61*
Thread ID	*Main*
Other	
Transaction ID	
Message Text	*Could not load a JKS keystore from the file /applis/xdtapp/pur/wixa61/par/./certificats/xaxdcz00p1jr.jks. Exception: java.io.IOException: Keystore was tampered with, or password was incorrect*
Error	*Could not load a keystoreType keystore from the file pathname. Exception exception*
Description	*When calling the load method for the keystore, an IOException was thrown.*
Cause	*There is an I/O or format problem with the keystore data.*
Action	*Verify that the path to the keystore, the keystore type, and the password for the keystore were specified correctly. Note that some keystore types (for example, JKS) do not require a password for read-only access. Read the exception text for more help on diagnosing the problem. Reboot the server after correcting the problem.*

Occurrence detail

Log message

additional Information from BEA support

↓

File containing all the occurrences of a certain type of logs from a certain severity.

```
0|D:\BEA\DOMAINES\81\SP5\clusterDomain\admin\admin.log|1|26 juin 2007 22 h 21 CEST|Error|Management|jfrancoi01|admin|ExecuteThread: '23' for queue:
'weblogic.kernel.Default'|system||BEA-140001|An error occurred while getting attribute ClusterRuntime on MBean
clusterDomain:Location=admin,Name=managed2,Type=ServerConfig. Method: public weblogic.management.runtime.ClusterRuntimeMBean
weblogic.management.mbeans.custom.Server.getClusterRuntime(). Exception: javax.management.InstanceNotFoundException:
clusterDomain:Name=cluster,ServerRuntime=managed2,Type=ClusterRuntime.
javax.management.InstanceNotFoundException: clusterDomain:Name=cluster,ServerRuntime=managed2,Type=ClusterRuntime
        at weblogic.management.internal.RemoteMBeanServerImpl.getSerializable(RemoteMBeanServerImpl.java:197)
        at weblogic.management.internal.Helper.ensureObjectNameLocalAndImported(Helper.java:675)
        at weblogic.management.internal.Helper.ensureLocalAndImported(Helper.java:594)
        at weblogic.management.internal.DynamicMBeanImpl.getAttribute(DynamicMBeanImpl.java:630)
        at weblogic.management.internal.ConfigurationMBeanImpl.getAttribute(ConfigurationMBeanImpl.java:186)
        at com.sun.management.jmx.MBeanServerImpl.getAttribute(MBeanServerImpl.java:1183)
        at com.sun.management.jmx.MBeanServerImpl.getAttribute(MBeanServerImpl.java:1153)
        at weblogic.management.internal.RemoteMBeanServerImpl.getAttribute(RemoteMBeanServerImpl.java:288)
        at weblogic.management.internal.MBeanProxy.getOneAttribute(MBeanProxy.java:646)
        at weblogic.management.internal.MBeanProxy.invokeForCachingStub(MBeanProxy.java:467)
        at weblogic.management.configuration.ServerMBean_Stub.getAttribute(ServerMBean_Stub.java:8275)
        at com.bea.guardian.agent.weblogic.JmxHelper.getXMLAttributes(JmxHelper.java:383)
        at com.bea.guardian.agent.weblogic.JmxHelper.getXMLSubTree(JmxHelper.java:484)
        at com.bea.guardian.agent.weblogic.JmxHelper.getXMLSubTree(JmxHelper.java:492)
        at com.bea.guardian.agent.weblogic.JmxHelper.getXMLTree(JmxHelper.java:533)
        at com.bea.guardian.agent.weblogic.JmxCollector.invoke(JmxCollector.java:118)
        at com.bea.guardian.agent.weblogic.DispatchServlet.dispatch(DispatchServlet.java:98)
        at com.bea.guardian.agent.weblogic.DispatchServlet.doPost(DispatchServlet.java:303)
        at javax.servlet.http.HttpServlet.service(HttpServlet.java:760)
        at javax.servlet.http.HttpServlet.service(HttpServlet.java:853)
        at weblogic.servlet.internal.ServletStubImpl$ServletInvocationAction.run(ServletStubImpl.java:1072)
        at weblogic.servlet.internal.ServletStubImpl.invokeServlet(ServletStubImpl.java:465)
        at weblogic.servlet.internal.ServletStubImpl.invokeServlet(ServletStubImpl.java:348)
        at weblogic.servlet.internal.WebAppServletContext$ServletInvocationAction.run(WebAppServletContext.java:6981)
        at weblogic.security.acl.internal.AuthenticatedSubject.doAs(AuthenticatedSubject.java:321)
        at weblogic.security.service.SecurityManager.runAs(SecurityManager.java:121)
        at weblogic.servlet.internal.WebAppServletContext.invokeServlet(WebAppServletContext.java:3892)
        at weblogic.servlet.internal.ServletRequestImpl.execute(ServletRequestImpl.java:2766)
        at weblogic.kernel.ExecuteThread.execute(ExecuteThread.java:224)
        at weblogic.kernel.ExecuteThread.run(ExecuteThread.java:183)

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'weblogic.kernel.Default'|system||BEA-140001|An error occurred while getting attribute ClusterRuntime on MBean
clusterDomain:Location=admin,Name=managed3,Type=ServerConfig. Method: public weblogic.management.runtime.ClusterRuntimeMBean
weblogic.management.mbeans.custom.Server.getClusterRuntime(). Exception: javax.management.InstanceNotFoundException:
clusterDomain:Name=cluster,ServerRuntime=managed3,Type=ClusterRuntime.
javax.management.InstanceNotFoundException: clusterDomain:Name=cluster,ServerRuntime=managed3,Type=ClusterRuntime
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```

3   BEST PRACTICE

3.1   Centralization and exposition

Use of a log copy of several instances (`rsync`) in the same directory (a report for all the instances) on a dedicated machine.
Launch of the commande line on regular date on the directory.
Exposure of the report via an `HTTP` server to make it available from everyone.

3.2   Error Management

Creation of a document of the various `ID` appearing in the report.
Isolate IDs from BEA BUG and open CASE to the support
Isolate IDs resulting from application BUG and defer it to the development team.
Isolate infrastructure error (stop/start of data base, etc ...)
Exclude the OD referred above in order to see in the report only the new events.

3.3   Filter

Apply shell script on files details in odrer to list all the components posing problem.

```
cat document_root\Error\OCC\0.log | awk -F '|' '{print $<No de champ>}  |
sort | uniq'
```