

Development issues

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Troubleshooting Eclipse

Finding errors in Eclipse error log view

If any errors are reported by Eclipse, you can see details about the error in **Error Log** view of Eclipse. When errors occur, only Eclipse Galileo will place this view in front of other views. In Eclipse Europa or Ganymede, you have to take these steps to find this view:

1. Click **Window**, and then **Show View-> Other**.
2. Expand **General** and click **Error Log**.
3. Click **OK**. The Error Log view displays.

Troubleshooting Java EE asset deployment

Coexistence of <sec:security> and <dep:gbean> results in error in application deployment plan on Eclipse 3.5

If you use both <sec:security> and <dep:gbean> elements in this deployment plan `geronimo-application.xml` for your EAR, Eclipse 3.5 reports an error. This is because the XML editor in Eclipse 3.5 cannot recognize multiple aliases in the naming space. However, this application can be deployed on the server successfully even though Eclipse 3.5 reports an error in the plan. See [Eclipse bug](#) for more information about this problem.

To prevent Eclipse from reporting this type of errors, follow these steps:

1. Click **Window->Preferences**.
2. Expand **XML** and then **XML Files**.
3. Select **Validation**. Deselect **Honour all XML schema locations**.
4. Click **Apply**.
5. Close the deployment plan and reopen it. Eclipse won't report this type of errors again.

Managed beans not found exceptions when using annotation

This could happen if you have used `@ManagedBean` annotation in your application, while according to JSF 2.0 specification, only those jar files which contains a `faces-config.xml` in its `/META-INF` folder will be scanned. You need to manually add a `faces-config.xml` file in the `/META-INF` of your application if there are jar files under `/WEB-INF/lib/` directory which have `@ManagedBean` annotation definition in jar files.

```
xml:faces-config.xml <faces-config version="2.0" xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-facesconfig_2.0.xsd"> </faces-config>
```

Troubleshooting Container problems

Enable JSP&Servlet reloading for Tomcat

By default, JSP&Servlet reloading is disabled for performance reasons. Refer to the following steps to enable JSP&Servlet reloading for Tomcat web container:

1. Stop the server if it is running;
2. Open `<Geronimo_Home>/var/catalina/conf/web.xml` in edit mode;
3. Locate `<servlet-class>org.apache.jasper.servlet.JspServlet</servlet-class>` in the `web.xml` file;
4. Change the value of `development` from `false` to `true`. The changed parameter will be like `web.xml <servlet-class>org.apache.jasper.servlet.JspServlet</servlet-class> <init-param> <param-name>development</param-name> <param-value>true</param-value> </init-param>`
5. You can add the following code snippet into the `web.xml` under the above mentioned servlet class. `web.xml <init-param> <param-name>modificationTestInterval</param-name> <param-value>10</param-value> </init-param>` where `modificationTestInterval` is the time in seconds, which configures the server for JSP reloading interval. In the above configuration, the changes will be reloaded within 10 seconds.

Use OpenEJB startup options in Geronimo

OpenEJB has lots of startup options as documented [here](#). In Geronimo, you can use system variable `GERONIMO_OPTS` to pass through these options. For example, to configure `local.copy` option in Geronimo, you can use the following command before the server is started.

On a Windows system: **set GERONIMO_OPTS=-Dopenejb.localcopy=false**
On a Unix-like system: **export GERONIMO_OPTS=-Dopenejb.localcopy=false**

configuring defaultJspServlet parameters to enable development mode

You can override xml attributes in `config.xml` by configuring defaultJspServlet parameters to enable development mode for JSP and servlets as followed in Tomcat assembly. You need to replicate the same Jasper configuration for jetty8-deployer if you are using Jetty assembly.

```
xmlconfig.xml ... <module name="org.apache.geronimo.configs/jasper-deployer/3.0-SNAPSHOT/car"> <gbean name="JspModuleBuilderExtension">
<attribute name="defaultJspServlet" propertyEditor="org.apache.geronimo.web25.deployment.utils.WebAppXmlAttributeBuilder"> <web-app:web-app
xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web-app="http://java.sun.com/xml/ns/javaee"> <servlet> <servlet-name>jsp</servlet-name> <servlet-
class>org.apache.jasper.servlet.JspServlet</servlet-class> <init-param> <param-name>development</param-name> <param-value>true</param-value> <
/init-param> <init-param> <param-name>trimSpaces</param-name> <param-value>true</param-value> </init-param> <init-param> <param-name>fork<
/param-name> <param-value>false</param-value> </init-param> <init-param> <param-name>logVerbosityLevel</param-name> <param-value>DEBUG<
/param-value> </init-param> <init-param> <param-name>xpoweredBy</param-name> <param-value>false</param-value> </init-param> <init-param>
<param-name>engineOptionsClass</param-name> <param-value>org.apache.geronimo.jasper.JspServletOptions</param-value> </init-param> <load-on-
startup>0</load-on-startup> </servlet> <servlet-mapping> <servlet-name>jsp</servlet-name> <url-pattern>*.jsp</url-pattern> <url-pattern>*.jspx</url-
pattern> <url-pattern>*.jspx</url-pattern> <url-pattern>*.xsp</url-pattern> </servlet-mapping> </web-app:web-app> </attribute> </gbean> </module>
<module name="org.apache.geronimo.configs/tomcat7-deployer/3.0-SNAPSHOT/car"> <gbean name="TomcatWebBuilder"> <attribute name="jspServlet"
propertyEditor="org.apache.geronimo.web25.deployment.utils.WebAppXmlAttributeBuilder"> <web-app:web-app xmlns="http://java.sun.com/xml/ns
/javaee" xmlns:web-app="http://java.sun.com/xml/ns/javaee"> <servlet> <servlet-name>jsp</servlet-name> <servlet-class>org.apache.jasper.servlet.
JspServlet</servlet-class> <init-param> <param-name>development</param-name> <param-value>true</param-value> </init-param> <init-param>
<param-name>trimSpaces</param-name> <param-value>true</param-value> </init-param> <init-param> <param-name>fork</param-name> <param-
value>false</param-value> </init-param> <init-param> <param-name>logVerbosityLevel</param-name> <param-value>DEBUG</param-value> </init-
param> <init-param> <param-name>xpoweredBy</param-name> <param-value>false</param-value> </init-param> <init-param> <param-
name>engineOptionsClass</param-name> <param-value>org.apache.geronimo.jasper.JspServletOptions</param-value> </init-param> </servlet> </web-
app:web-app> </attribute> </gbean> </module> ...
```