

Servlet TCK 6.0

Running

Tomcat

setenv.[sh|bat]

Set the following system properties

- -Dorg.apache.catalina.STRICT_SERVLET_COMPLIANCE=true

context.xml

Make the following changes:

```
<Context crossContext="true" resourceOnlyServlets="jsp">
    ...
</Context>
```

server.xml

Enable h2c on port 8080, and add some trailer headers

```
<Connector ... allowedTrailerHeaders="myTrailer, myTrailer2" >
    <UpgradeProtocol className="org.apache.coyote.http2.Http2Protocol" />
</Connector>
```

Enable TLS on port 8443

```
<Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true">
    <SSLHostConfig protocols="TLSv1.2" truststoreFile="conf/cacerts.jks">
        <Certificate certificateKeystoreFile="conf/clientcert.jks"
            certificateKeystorePassword="changeit"
            type="RSA" />
    </SSLHostConfig>
</Connector>
```

Note: Set protocols="TLSv1.2" to disable TLSv1.3 since the TCK requires post-handshake authentication and the Java 11 client does not support that.

tomcat-users.xml

Make the following changes:

```
<user username="CN=CTS, OU=Java Software, O=Sun Microsystems Inc., L=Burlington, ST=MA, C=US" roles="Administrator"/>
<user username="j2ee" password="j2ee" roles="Administrator,Employee" />
<user username="javajoe" password="javajoe" roles="VP,Manager" />
```

web.xml

Remove the sections setting the default character encoding for requests and responses to UTF-8.

And add the following:

```
<locale-encoding-mapping-list>
    <locale-encoding-mapping>
        <locale>ja</locale>
        <encoding>Shift_JIS</encoding>
    </locale-encoding-mapping>
</locale-encoding-mapping-list>
```

modules

The signature test needs to have servlet-api.jar and annotations-api.jar in the modules subdirectory.

Test Suite

Download the Jakarta Servlet 6.0.1 TCK

<https://download.eclipse.org/jakartaee/servlet/6.0/jakarta-servlet-tck-6.0.1.zip>

Extract to `SERVLET_TCK_HOME`

```
cd $SERVLET_TCK_HOME/bin/certificates
```

Convert `cts_cert` to a truststore doing: "keytool -import -alias cts -file cts_cert -storetype JKS -keystore cacerts.jks" password should be "changeit"

Add `$SERVLET_TCK_HOME/bin/certificates/cacerts.jks` and `$SERVLET_TCK_HOME/bin/certificates/clientcert.jks` in the Tomcat conf folder

Edit `$SERVLET_TCK_HOME/bin/ts.jte`

You'll need to set the following properties (adjust the paths and values for your environment)

```
web.home=/path/to/tomcat
servlet.classes=${web.home}/lib/servlet-api.jar:${web.home}/lib/annotations-api.jar
webServerHost=localhost
webServerPort=8080
securedWebServicePort=8443
command.testExecute += -Djavax.net.ssl.trustStore=${ts.home}/bin/certificates/cacerts.jks
command.textExecute -= -Djava.endorsed.dirs=${endorsedlib.dir} (Java 11 only)

set JAVA_HOME
cd $SERVLET_TCK_HOME/bin
ant gui

Accept the defaults and then run the tests
```

Expected results

A default 10.1.x build with the above configuration and the 6.0.1 TCK triggers those expected failures:

Expected failures

- 1 x default context path test as Tomcat configuration always overrides this.
 - (com/sun/ts/tests/servlet/spec/defaultcontextpath/URLClient.java#getDefaultContextPathTest)