

SDDC-PP Advisory #16-0026

Date: 04 December 2015

From: SDDC-PP Scott AFB, IL

To: Military Service Headquarters Representatives and Worldwide Personal Property Shipping Offices (PPSO)

Subject: Java 8 Workarounds for Enhanced Transportation Operational Personal Property Standard System (ETOPS)

1. Although ETOPS is compatible with Java 8, some users may experience issues accessing the application after a Java Runtime Environment (JRE) 1.8 push to an installation's network. Please refer to the configuration requirements and step-by-step guidance following this advisory (pages 2 through 6.)

2. For questions regarding this message, please send an email to: army.sddc.safb.ppcf@mail.mil.

3. Please report technical issues to the SDDC Systems Response Center (SRC):

a. Email: usarmy.scott.sddc.mbx.g6-src-dps-hd@mail.mil

b. Telephone: toll free (800) 462-2176 or commercial (618) 589-9445, Option 5

c. Internet: <https://www.sddc-srchelpme.com>

4. This message was approved for release by Chief, Personal Property Systems Integration Division, HQ SDDC.

Create System Environment Variable for JAVA_TOOL_OPTIONS

Click Windows Start --> Right-Click Computer --> Properties Click "Advanced System Settings".

Click the Advanced Tab.

Click Environment Variables button to display **System Variables**.

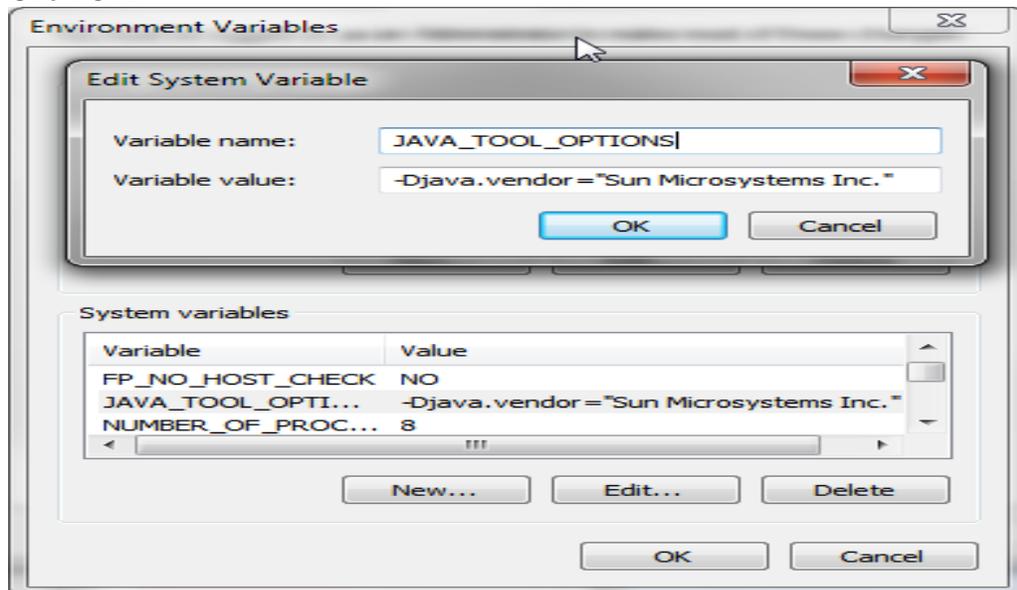
Under the **System Variables** section, click New.

In the Variable Name section, enter: **JAVA_TOOL_OPTIONS**

In the Variable Value section, enter: **-Djava.vendor="Sun Microsystems Inc."**

******* BE ADVISED, YOU HAVE TO TYPE THIS INFORMATION INTO THE WINDOW. DO NOT USE COPY & PASTE. *******

Click OK.



Update Java Runtime Parameters

Open file manager and go to the directory below, double-click on this file:
C:\Program Files (x86)\Java\jre7\bin\javacpl.exe

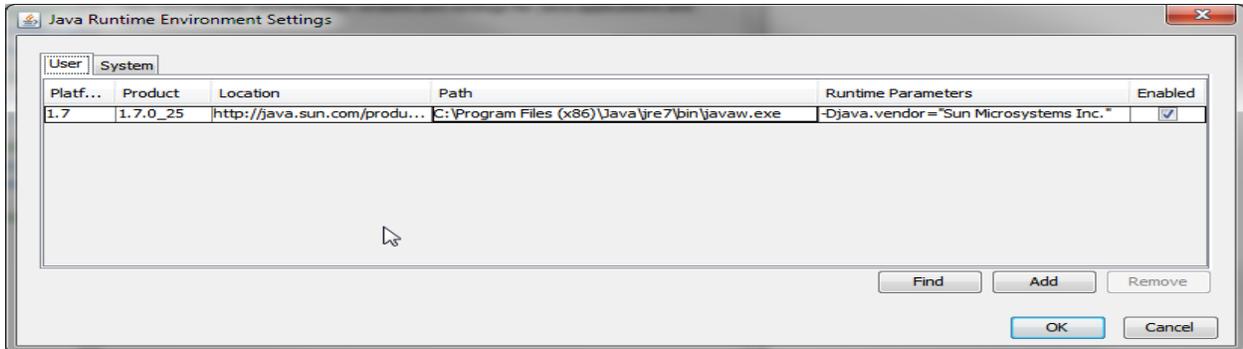
This opens a "Java Control Panel" window.
Click the Java tab, then the View... button.

This should open a Java Runtime Environment Settings window with two tabs: User and System.

On the User tab, under Runtime Parameters, enter: **-Djava.vendor="Sun Microsystems Inc."**

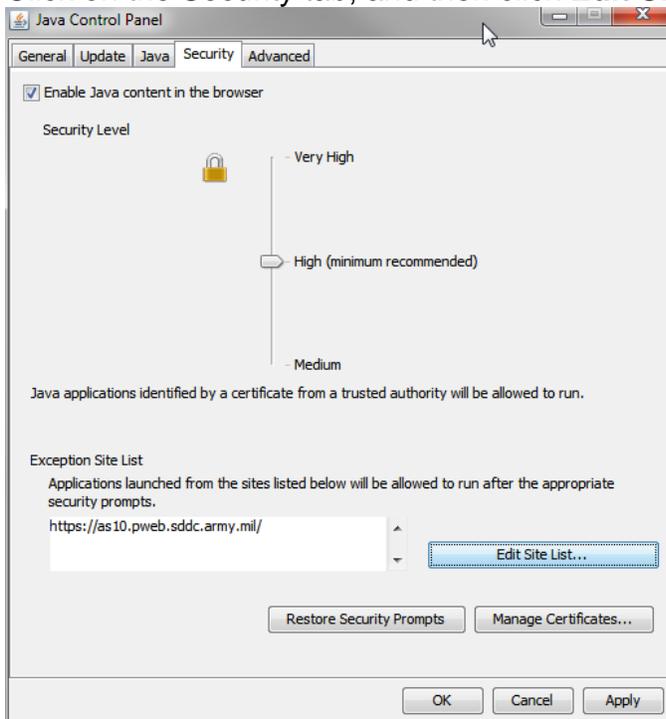
***** BE ADVISED, YOU HAVE TO TYPE THIS INFORMATION INTO THE WINDOW.
DO NOT USE COPY & PASTE. ****

- Click OK when you are done.



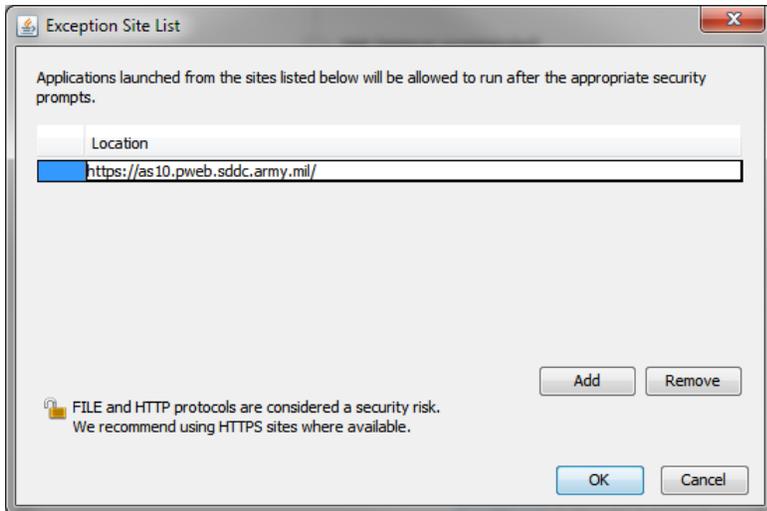
Update Exception Site List in Java Control Panel (version 1.7.0_51 and higher)

Click on the Security tab, and then click **Edit Site List**.



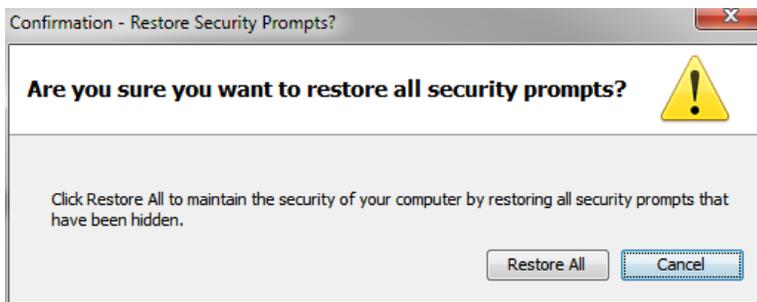
- Add the following sites to the exception list:
https://as10.pweb.sddc.army.mil/
https://etops.sddc.army.mil/

***** BE ADVISED, YOU HAVE TO TYPE THIS INFORMATION INTO THE WINDOW.
DO NOT USE COPY & PASTE. ****



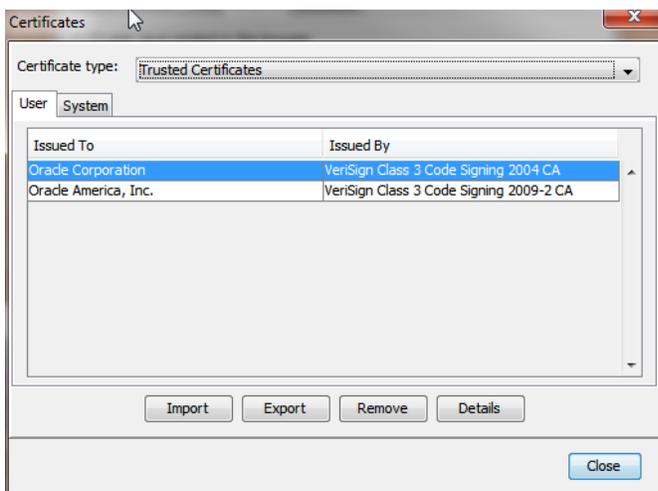
Restore all security prompts for Java

From the Java Control Panel Security tab, click **Restore Security Prompts**.



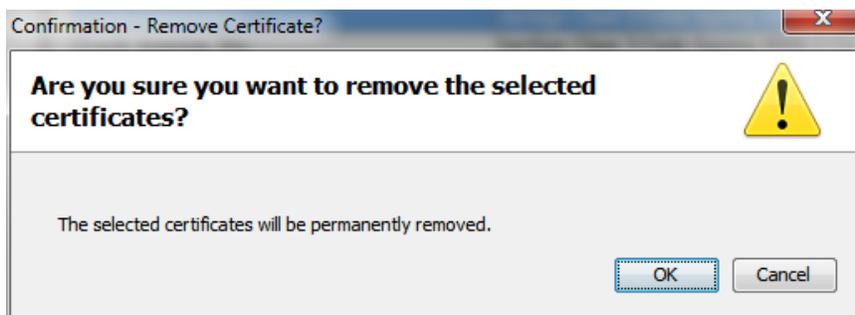
Remove all previously approved Oracle Certificates

From the Java Control Panel Security tab, click **Manage Certificates**.



For each Oracle certificate, select the certificate and click **Remove**.

Press **OK** when prompted to remove the certificate.



Press **Close** when done.

Unable to run Oracle Forms Application using SSL with Java 8 Runtime

Starting with Oracle Forms and Reports 11.1.2.2.0, the latest version of Oracle Forms available, support with Java Runtime 8 update 5 or higher has been added per the Oracle Forms 11.1.2.2.0 certification matrix (More information can be found in the Client tab in the certification matrix)

<http://www.oracle.com/technetwork/es/middleware/docs/oracle-forms-111220certmatrix-2087910.xls?ssSourceSiteId=otnen>.

However, if your Forms application is using SSL (https), you may encounter the following error in your Java Console:

```
network: Connecting https://server.domain/ with proxy=DIRECT
javax.net.ssl.SSLException: Received fatal alert: close_notify
network: Connecting http://server.domain:443/ with proxy=DIRECT
        at sun.security.ssl.Alerts.getSSLException(Unknown Source)
        at sun.security.ssl.Alerts.getSSLException(Unknown Source)
```

The Forms application will no longer work. According to the “Security Enhancements” page in the JRE 8 documentation

<http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html>, the TLS 1.1 and TLS 1.2 options were enabled in the Java Control Panel found on every client PC which connects to the Oracle Forms application. Previously in JRE 6 and 7, these options were either disabled or not present; however, it was enabled in JRE 8.

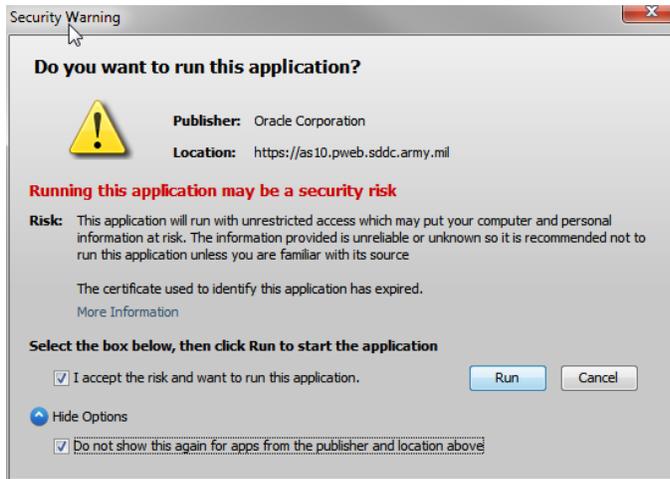
To fix the problem, in the client PC, you will need to perform these steps:

1. Open up the Java Control Panel
2. Click the **Advanced** tab and expand the **General** section.
3. You will see that **Use TLS 1.1** and **Use TLS 1.2** are selected. Unselect both checkboxes and click **OK**.
4. Close out of all browser windows and re-launch the application.

Grant permission to Java for ETOPS applet

Login to ETOPS and grant permission to the applet when prompted.

Check the box for **“I accept the risk and want to run this application.”** Click **Show Options** and check **“Do not show this again for apps from the publisher and location above”**.



Click **Run** to continue to ETOPS.

The ETOPS login window will be displayed if your configuration is correct.

----- END OF DOCUMENT -----