

Configuring HTTPS Communication

By default, Spectrum™ Technology Platform communication with the client tools (Enterprise Designer, Management Console, and Interactive Driver) and API occurs over HTTP. You can configure Spectrum™ Technology Platform to use HTTPS if you want to secure these network communications.

1. Stop the Spectrum™ Technology Platform server.
 - To stop the server on Windows, right-click the Spectrum™ Technology Platform icon in the Windows system tray and select **Stop Server**. Alternatively, you can use the Windows Services control panel and stop the Pitney Bowes Spectrum™ Technology Platform service.
 - To stop the server on Unix or Linux, source the `<SpectrumLocation>/server/bin/setup` script then execute the `<SpectrumLocation>/server/bin/server.stop` script.
2. Create a certificate and load it into a JSSE keystore. For more information, see <http://docs.codehaus.org/display/JETTY/How+to+configure+SSL>.
3. Create an XML file named `spectrum-override-container-ssl.xml` containing the following:

```
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:util="http://www.springframework.org/schema/util"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
    http://www.springframework.org/schema/util
    http://www.springframework.org/schema/util/spring-util-3.0.xsd">

  <bean id="defaultWebServerConnector"
    class="com.gl.dcg.server.jetty.JettyDelayedServerConnector">
    <constructor-arg ref="webServer"/>
    <constructor-arg>
      <bean class="org.eclipse.jetty.util.ssl.SslContextFactory">
        <property name="keyStorePath" value="/SpectrumKeystore"/>

        <property name="keyManagerPassword" value="password"/>
        <property name="keyStorePassword" value="password"/>
      </bean>
    </constructor-arg>
    <property name="host" value="\${spectrum.bind.address}"/>
    <property name="port" value="\${spectrum.http.port}"/>
    <property name="idleTimeout" value="-1"/>
  </bean>
</beans>
```

4. Modify the following lines as needed to reflect your environment:

<code><property name="keyStorePath" value="/SpectrumKeystore"/></code>	Modify the value to be the relative path from <code><ServerLocation>/server/app/conf/spring</code> to the keystore you are using. This example assumes the keystore in the root of the drive on which the Spectrum™ Technology Platform server is installed.
<code><property name="keyManagerpassword" value="password"/></code>	Modify the value to be the password to the keystore.
<code><property name="keyStorePassword" value="password"/></code>	Modify the value to be the password to the key within the keystore.

5. Save the `spectrum-override-ssl.xml` file to `<SpectrumLocation>/server/app/conf/spring`.
6. Using a text editor, open the file `spectrum-container.properties` located in `<SpectrumLocation>/server/app/conf` and set the following properties:

```
spectrum.http.port=8443  
spectrum.runtime.hostname=dnsname  
Where dnsname is the external DNS for the server.
```

7. Start the Spectrum™ Technology Platform server.
 - To start the server on Windows, right-click the Spectrum™ Technology Platform icon in the Windows system tray and select **Start Server**. Alternatively, you can use the Windows Services control panel to start the Pitney Bowes Spectrum™ Technology Platform service.
 - To start the server on Unix or Linux, execute the `<SpectrumInstallDirectory>/server/bin/server.start` script.