

SCD Application Release + Deployment

The Structured Credit Desktop, ReportMailer and all associated Java batches are built and released using Maven.

Therefore a pre-requisite of this process is to have Maven installed and configured on the machine from which the release will be executed. For instructions on how to install and configure a SCD Maven environment, please refer to the [environment setup steps](#).

Structured Credit Desktop Build

!! Before performing a build + deployment, it is critical that the release is labeled within Perforce. This is so the build can be replicated at a later date if necessary !!

To build the SCD for **all** environments, the following command should be executed from the project root;-

```
C:\perforce\nbkgged\EMEA_Credit\tactical\projects\SCD\Core\SCD> mvn clean package install
```

There will be no environment id flag to indicate to Maven what environment to build so that SCTDesktop pom.xml file will go through all the environments specified as modules and build separate configuration JARs for each of these environments.

```
<module>
...
<module>ConfigurationsUat</module>
<module>ConfigurationsProd</module>
<module>ConfigurationsUatDualServer</module>
<module>ConfigurationsStr</module>
</modules>
...
```

Next you need to build the webstart artifact.

This requires a certain amount of manual hard-wiring of the modules versions which will be used to make up the released artifact.

First open the SCD/webstart/pom.xml file, and ensure that the correct versions of the modules which will be used within the release are being referenced within the dependencies section of the project descriptor. These module versions must be compared with those currently found within each of the SCD modules.

There will be no more SNAPSHOT labels for any releases.

Also all the core modules and configuration modules need to be specified in the dependencies.

```

<dependencies>
  ...
  <dependency>
    <groupId>com.bofa.scp</groupId>
    <artifactId>ConfigurationsUat</artifactId>
    <version>1.0.0 </version>
  </dependency>
  <dependency>
    <groupId>com.bofa.scp</groupId>
    <artifactId>ConfigurationsProd</artifactId>
    <version>1.0.0 </version>
  </dependency>
  <dependency>
    <groupId>com.bofa.scp</groupId>
    <artifactId>ConfigurationsStr</artifactId>
    <version>1.0.0 </version>
  </dependency>
  <dependency>
    <groupId>com.bofa.scp</groupId>
    <artifactId>ConfigurationsUatDualServer</artifactId>
    <version>1.0.0 </version>
  </dependency>
</dependencies>
  ...

```

For the core modules and the configuration modules, it is also necessary to ensure that the correct versions are specified within the jarResources section of the configuration section for the maven-webstart-plugin. e.g.

```

<build>
  <plugins>
    ...
    <configuration>
      <!-- JNLP build -->
      ...
      <jarResources>
        <jarResource>
          <groupId>com.bofa.scp</groupId>
          <artifactId>BaseCorrelation</artifactId>
          <version>1.0.0 </version>
        </jarResource>
        ...
        <jarResource>
          <groupId>com.bofa.scp</groupId>
          <artifactId>ConfigurationsUat</artifactId>
          <version>1.0.0 </version>
        </jarResource>
        <jarResource>
          <groupId>com.bofa.scp</groupId>
          <artifactId>ConfigurationsProd</artifactId>
          <version>1.0.0 </version>
        </jarResource>
        <jarResource>
          <groupId>com.bofa.scp</groupId>
          <artifactId>ConfigurationsUatDualServer</artifactId>
          <version>1.0.0 </version>
        </jarResource>
      </jarResources>
    </configuration>
  </plugins>
</build>

```

```
        <jarResource>
            <groupId>com.bofa.scp</groupId>
            <artifactId>ConfigurationsStr</artifactId>
            <version>1.0.0 </version>
        </jarResource>
    </jarResource>
```

...

It may also necessary (depending on whether the desktop module has been incremented) to update the profile.xml file, setting the version of the com.bofa.scp:desktop artifact, to that which is being included in the build. e.g.

```
<properties>

<!-- Boilerplate stuff -->
<title>Structured Credit Trading Desktop</title>

<!-- Runtime Environment Specific Configuration -->
<javaVersion>1.5</javaVersion>
<initialHeapSize>256</initialHeapSize>
<maxHeapSize>1024</maxHeapSize>
<currentDesktopVersion>1.0.0 </currentDesktopVersion>
```

Once this configuration has been completed, the configuration should be committed to Perforce, using the release manager JIRA story.

Next build the webstart project. There will be no need to specify the environment id but include all the configuration JAR files to the WAR file.

```
C:\perforce\nbkgged\EMEA_credit\tactical\projects\SCD\Core\SCD\webstart>mvn clean package
```

The final built artifact (**SCTDesktop-null.war**) can be found within the webstart module of the SCD project.

Finally, rename the SCTDesktop-null.war file to match the access environment.

For example, for UAT release, simple rename this file to be SCTDesktop-uat.war, and deploy the WAR file on the UAT server. During the web access, JSP page can choose the UAT configuration file to be downloaded for the user.

For production release, rename this file to be SCTDesktop-prod.war and deploy the WAR file on the production server. During the web access, JSP page can choose the Prod configuration file to be downloaded for the user.

There is no need to rebuild the SCTDesktop application or webstart project for different types of releases! The built SCTDesktop-null.war contains the configuration files for all different environments.

The environment label used to rename the WAR file can be chosen ONLY from: uat, uatdualserver, prod, str. (if no further configuration module is added)