

Development Support: NPanday

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NPanday Settings

An `npanday-settings.xml` file is required in your `.m2` directory for NPanday builds to work. This file should be generated automatically when you first run a build, but in some cases it will fail to generate. You can generate the file manually with the following steps:

1. Create a temporary folder and download the following artifacts from Nexus into it:
 - `org.apache.npandy.plugins:NPanday.Plugin` (dll)
 - `org.apache.npandy.plugins:NPanday.Plugin.Loader` (exe)
 - `org.apache.npandy.plugins:NPanday.Plugin.Runner` (exe)
 - `org.apache.npandy.plugins:NPanday.Plugin.Settings` (dll)
2. The file names may contain extra version information at the end. Rename them to just the artifact name and file extension. e.g. `NPanday.Plugin-1.4.0-incubating-4b435f4d76e2f0e6.dll` -> `NPanday.Plugin.dll`
3. Create a file, `generate-settings-params.xml` in the folder with the contents shown below.
4. Run the following command:

```
NPanday.Plugin.Runner.exe parameterFile=generate-settings-params.xml assemblyFile=NPanday.Plugin.Settings.dll
```

5. Copy the generated `npanday-settings.xml` to your `.m2` directory.

generate-settings-params.xml

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<configuration>
  <npandaySettingsPath>.\npanday-settings.xml</npandaySettingsPath>
</configuration>
```

NPanday for Visual Studio

1. Make sure you have an environment variable `M2_HOME` pointing to your maven install directory.
2. Follow these instructions to install Visual Studio Add-in automatically: Installing the Visual Studio Add-in using the NPanday Installer (http://incubator.apache.org/npanday/docs/1.4.0-incubating/guide/installation/index.html#Installing_the_Visual_Studio_Add-in_using_the_NPanday_Installer)

Releasing

A bug currently exists (<https://issues.apache.org/jira/browse/NPANDAY-439>) in NPanday 1.4.0-incubating which prevents `release:prepare` from working correctly on multi-module projects with interdependent modules. You can work around this bug by changing maven-release-plugin's preparation goals from `clean verify` to `clean install`.

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <version>2.1</version>
  <configuration>
    <preparationGoals>clean install</preparationGoals>
  </configuration>
</plugin>
```

Resgen Plugin

A bug in NPanday 1.4.0-incubating (<https://issues.apache.org/jira/browse/NPANDAY-358>) causes `maven-resgen-plugin` to look in the wrong directory when processing resource files. To avoid having to copy resource files to multiple folders, we created a patched version of `maven-resgen-plugin` that looks for resources in the same directory as the `.resx` file which includes them. Due to *another* bug with NPanday, you cannot use this patched plugin without also using a patched version of `maven-compile-plugin` since that plugin hard-codes references `maven-resgen-plugin:1.4.0-incubating`.

You can use the correct, patched versions of both plugins by placing the following in the `<pluginManagement>` section of your pom:

```
<plugin>
  <groupId>org.apache.npanday.plugins</groupId>
  <artifactId>maven-compile-plugin</artifactId>
  <version>1.4.0-incubating-cdm</version>
  <extensions>true</extensions>
</plugin>
<plugin>
  <groupId>org.apache.npanday.plugins</groupId>
  <artifactId>maven-resgen-plugin</artifactId>
  <version>1.4.0-incubating-cdm</version>
</plugin>
```

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