



**Ant4Eclipse**

# Ant4Eclipse

- » Open-Source-Projekt (<http://www.ant4eclipse.org>)

**Ant-Tasks zum Auslesen und Verarbeiten  
von Eclipse Projekt-Informationen**

- » Seit Juni 2005
- » Seit ca. 10/2007 PDE-Support

# Ant4Eclipse II

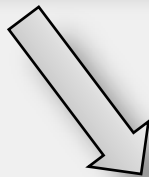
The screenshot shows the Ant4Eclipse website in a Mozilla Firefox browser window. The browser's address bar displays the URL <http://www.ant4eclipse.org/>. The website's header features the Ant4Eclipse logo, which includes a stylized ant and the text "Ant4Eclipse Access eclipse configurations from within ant". A search bar is located in the top right corner of the header. Below the header, a navigation menu contains links for "Download", "Jira", "Hudson", "Forum", and "Contact".

The main content area is divided into several sections:

- Documentation:** A sidebar menu with links to "Tutorials", "User Guide", "Reference", and "Developers Guide".
- Getting started with Ant4Eclipse:** A featured article dated "January 18, 2010 by Gerd Wuetherich". It includes two buttons: "download release" (with a green arrow icon) and "read tutorials" (with a document icon).
- Support ant4eclipse!:** A section encouraging donations, featuring a "Donate" button and logos for MasterCard, VISA, American Express, PayPal, and BANK.
- User login:** A form with fields for "Username:" and "Password:", a "Log in" button, and links for "Create new account" and "Request new password".
- Ant4Eclipse M3 released!:** An announcement dated "April 8, 2010 by Nils Hartmann". It states: "With some days delay, yesterday we released the third milestone of Ant4Eclipse. You can download the release from our Sourceforge Website at <http://sourceforge.net/projects/ant4eclipse/files/>." It lists resolved issues under three categories:
  - ant4eclipse general:**
    - AE-187: fix the psf file offered on the web site
    - AE-188: ship ant4eclipse with ecj-3.5.2.jar instead of ecj-3.5.jar
    - AE-150: Try to generate java 1.4 compliant code
    - AE-129: Implementation is not compatible with all macro implementation schemes.
  - ant4eclipse platform:**
    - AE-181: Infinite loop caused by logging of task getBuildOrder
  - ant4eclipse JDt:**
    - AE-51: DynamicAttributes for class path container argument
    - AE-178: Rename 'jdtClassPathContainer' -> 'jdtClassPathLibrary'
    - AE-185: getJdtClassPath bails out when there are projects with an empty output directory
  - ant4eclipse PDE:**

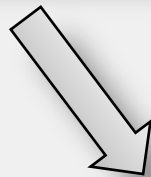
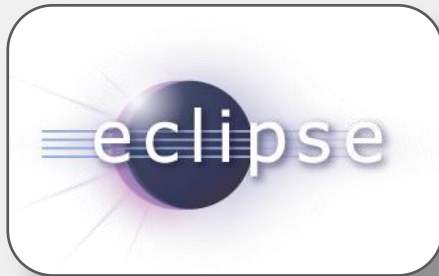
The browser's status bar at the bottom left shows the word "Fertig".

# Ant4Eclipse - Grundidee



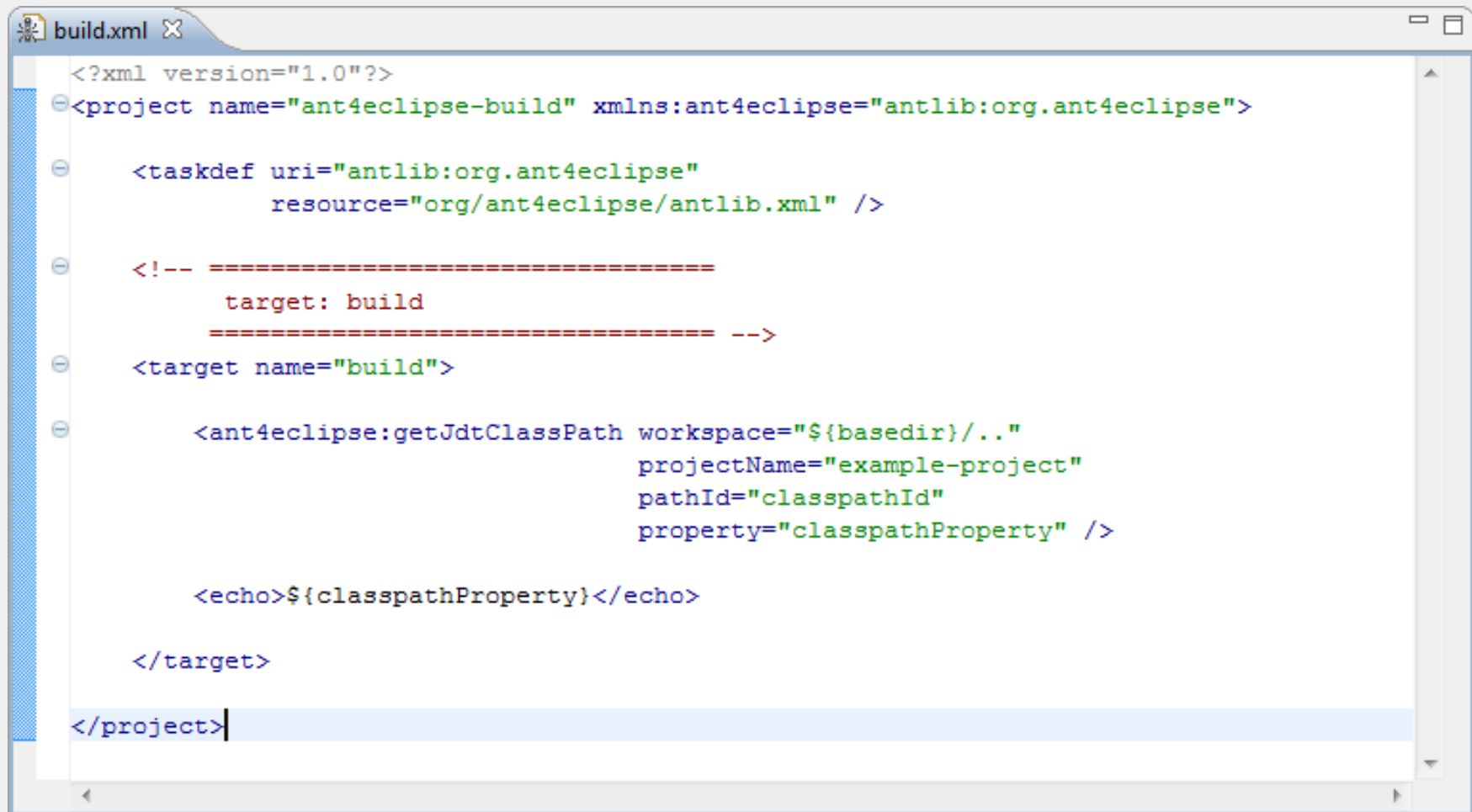
- ▶ org.javakontor.sherlog.build
- ▶ org.javakontor.sherlog.domain
  - ▶ .settings
  - ▶ bin
  - ▶ META-INF
  - ▶ src
  - .classpath
  - .project
  - build.properties
- ▶ org.javakontor.sherlog.domain.impl
- ▶ org.javakontor.sherlog.domain.logeventflavour.l4jbinary
- ▶ org.javakontor.sherlog.domain.logeventflavour.textexample

# Ant4Eclipse - Grundidee



- ▶ org.javakontor.sherlog.build
- ▶ org.javakontor.sherlog.domain
  - ▶ .settings
  - ▶ bin
  - ▶ META-INF
  - ▶ src
  - ▶ .classpath
  - ▶ .project
  - ▶ build.properties
- ▶ org.javakontor.sherlog.domain.impl
- ▶ org.javakontor.sherlog.domain.logeventflavour.l4jbinary
- ▶ org.javakontor.sherlog.domain.logeventflavour.textexample

# Ant4Eclipse – Beispiel 1



```
<?xml version="1.0"?>
<project name="ant4eclipse-build" xmlns:ant4eclipse="antlib:org.ant4eclipse">

  <taskdef uri="antlib:org.ant4eclipse"
           resource="org/ant4eclipse/antlib.xml" />

  <!-- =====
       target: build
       ===== -->

  <target name="build">

    <ant4eclipse:getJdtClassPath workspace="${basedir}/.."
                               projectName="example-project"
                               pathId="classpathId"
                               property="classpathProperty" />

    <echo>${classpathProperty}</echo>

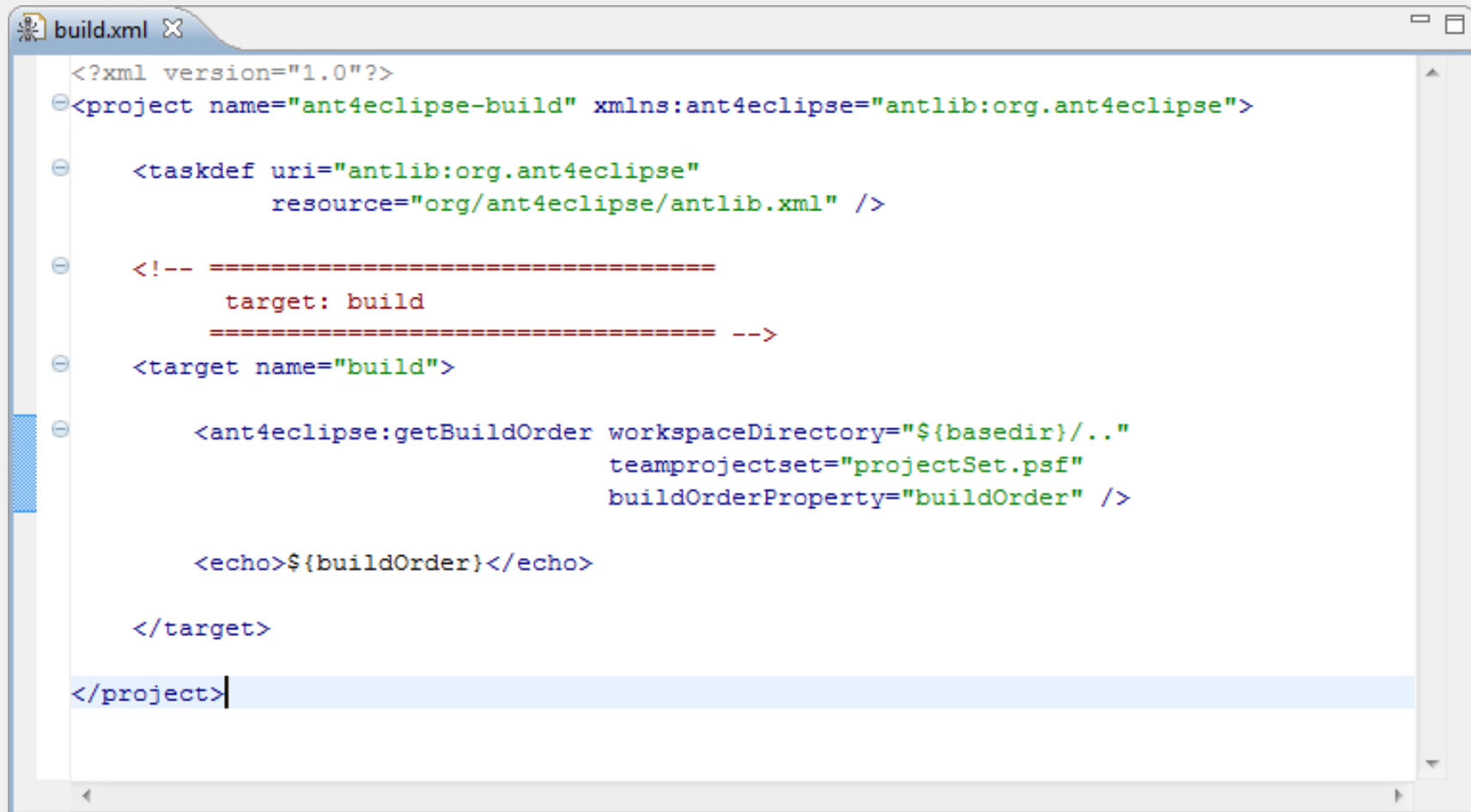
  </target>

</project>
```

# Ant4Eclipse – Project Sets



# Ant4Eclipse – Beispiel 2



```
<?xml version="1.0"?>
<project name="ant4eclipse-build" xmlns:ant4eclipse="antlib:org.ant4eclipse">

  <taskdef uri="antlib:org.ant4eclipse"
           resource="org/ant4eclipse/antlib.xml" />

  <!-- =====
       target: build
       ===== -->
  <target name="build">

    <ant4eclipse:getBuildOrder workspaceDirectory="${basedir}/.."
                              teamprojectset="projectSet.psf"
                              buildOrderProperty="buildOrder" />

    <echo>${buildOrder}</echo>

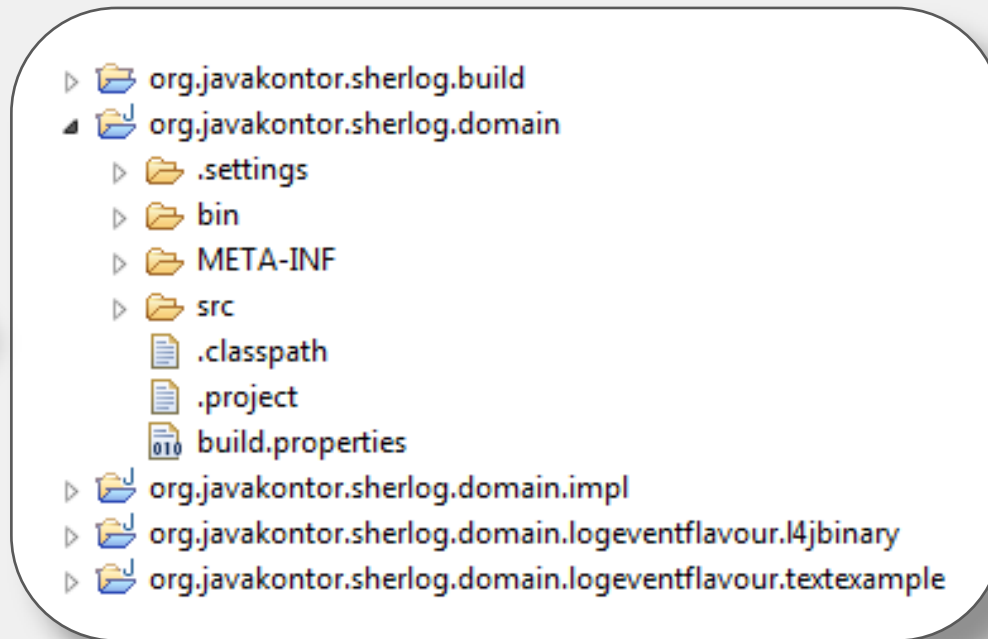
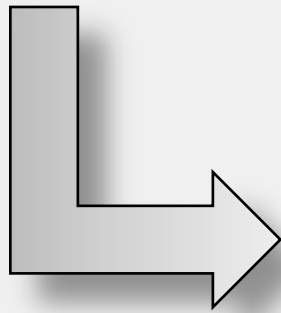
  </target>

</project>
```

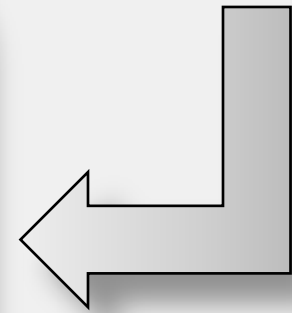


# Ant4Eclipse – Executors

For each output  
folder...



For each project...



# Ant4Eclipse – Beispiel 3

```
build.xml ✕
<?xml version="1.0"?>
<project name="ant4eclipse-build" xmlns:ant4eclipse="antlib:org.ant4eclipse">

  <taskdef uri="antlib:org.ant4eclipse"
           resource="org/ant4eclipse/antlib.xml" />

  <!-- =====
       target: build
  ===== -->
  <target name="build">

    <ant4eclipse:executeProjectSet workspaceDirectory="${basedir}/.."
                                  projectName="example-project"
                                  prefix="executeProjectSet">

      <ant4eclipse:forEachProject>
        <echo>Project name: ${executeProjectSet.project.name}</echo>
        <echo>Project directory: ${executeProjectSet.project.directory}</echo>
        <echo>Java project: ${executeProjectSet.org.eclipse.jdt.core.javanature}</echo>
      </ant4eclipse:forEachProject>

    </ant4eclipse:executeProjectSet>

  </target>

</project>
```

# Ant4Eclipse PDE

RequiredPlugins-  
Container

Target  
Platform



Ant-Macros

Access  
Restrictions

# Ant4Eclipse – PDE Macros

```
build-plugins.xml x
<?xml version="1.0"?>
<project name="build.ant4eclipse"
  default="build"
  xmlns:ant4eclipse="antlib:org.ant4eclipse">

  <import file="${basedir}/../org.ant4eclipse.ant.pde/macros/a4e-pde-macros.xml" />

  <!-- define your jdk location here -->
  <ant4eclipse:installedJREs>
    <jre id="jdk16" location="R:/software/jdk/jdk16" />
  </ant4eclipse:installedJREs>

  <!-- define the target platform location -->
  <ant4eclipse:targetPlatform id="target.platform">
    <location dir="${basedir}/target.platform/eclipse35" />
  </ant4eclipse:targetPlatform>

  <!-- the build target -->
  <target name="build">

    <buildPlugin workspaceDirectory="${basedir}/.."
      projectName="myPluginProject"
      targetplatformid="target.platform"
      destination="c:\tmp" />

    <buildFeature workspaceDirectory="${basedir}/.."
      projectName="myFeatureProject"
      targetplatformid="target.platform"
      destination="c:\tmp" />

  </target>
</project>
```

# Ant4Eclipse in Action

Danke! Fragen?

