

# The AntTask

## 0.1 Documentation

by Lenya community

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The `org.apache.lenya.cms.task.AntTask` class can be used to invoke targets of an Ant project.

## 1. Task Parameters

The task parameters are:

- **publication-id**: The publication ID
- **buildfile (optional)**: The location of the build file relative to the publication directory. If this parameter is not provided, the file is loaded from the default location (see section [File Locations](#)).
- **target (optional)**: The build target. If this parameter is not provided, the default target is executed.
- **properties.\***: The project properties.
- **ant.\***: The command-line parameters for Ant (**not implemented yet!**)

## 2. Logging

Every time an `AntTask` is invoked, a log file is created using the `XmlLogger` ([manual entry](http://ant.apache.org/manual/listeners.html) (<http://ant.apache.org/manual/listeners.html>) , [JavaDoc](http://nagoya.apache.org/gump/javadoc/ant/build/javadocs/org/apache/tools/ant/XmlLogger.html) (<http://nagoya.apache.org/gump/javadoc/ant/build/javadocs/org/apache/tools/ant/XmlLogger.html>) ). For the location of the log files, see section [File Locations](#). The log history can be viewed at the URI

```
http://.../<publication>/logs/tasks/index.html
```

## 3. Writing AntTask Buildfiles

Any Ant project file can be used as a buildfile for the `AntTask`. There is one implicit property that is always set when an `AntTask` is executed:

- **pub.dir**: The absolute path of publication directory.

The runtime properties of the target can be set using task parameters with the prefix `properties`, e. g. `properties.filename` for a buildfile property named `filename`.

## 4. Using custom Ant Tasks

The implementation of custom Ant tasks is described in the [Ant User Manual](http://ant.apache.org/manual/index.html) (<http://ant.apache.org/manual/index.html>) . If you want to write a general Lenya task, put it into the package `org.lenya.cms.ant`. If you want to write a task that is only suited for your publication, put it in the `<publication>/java/src/` directory.

## 5. File Locations

Default buildfile location:

```
<publication>/config/tasks/targets.xml
```

Log files:

```
<publication>/logs/tasks/*.xml
```

Log file presentation stylesheets:

```
<webapp>/lenya/xslt/logs/*.xsl
```

## 6. Example

The following buildfile contains the target `publish` that can be invoked using the `AntTask`:

```
<project name="Example Project" default="publish" basedir=".">
  <!-- implicit properties (set by the AntTask) -->
```

```

<property name="pub.dir" value="" />

<!-- publishing properties -->
<property name="authoring.dir" value="content/authoring" />
<property name="live.dir" value="content/live" />
<property name="publish.sources" value="" />

<target name="publish">
  <echo>Publish: Copying files from ${authoring.dir} to ${live.dir}</echo>
  <copy todir="${pub.dir}/${live.dir}">
    <fileset dir="${pub.dir}/${authoring.dir}">
      <include name="${publish.sources}" />
    </fileset>
  </copy>
</target>

</project>

```

You define the task in your `tasks.xconf` file:

```
<task id="ant" class="org.lenya.cms.task.AntTask" />
```

To invoke the task from your sitemap, you have to define an appropriate `TaskAction` instance:

```

<map:action name="publish"
  src="org.lenya.cms.cocoon.acting.TaskAction">
  <task id="ant" />
</map:action>

```

You call the action in a pipeline:

```

<map:match pattern="publish.html">
  <map:act type="publish">
    ...
  </map:act>
</map:match>

```

And finally, go to your browser and call the URI with the appropriate parameter(s):

```
http://.../publish.html?properties.publish.sources=test.xml
```