

# Access Controller Resolvers

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## 1. Introduction

An AccessControllerResolver resolves the appropriate AccessController for a URL.

## 2. Defining the Roles in lenya.roles

To obtain an AccessControllerResolver, the AccessControllerResolverSelector is used. A component which wants to obtain an AccessController asks the selector for the composable AccessControllerResolver. The composable AccessControllerResolver itself uses the selector to obtain its child AccessControllerResolvers.

```
<role name="org.apache.lenya.cms.ac2.AccessControllerResolverSelector"
  shorthand="access-controller-resolvers"
  default-class="org.apache.avalon.excalibur.component.ExcaliburComponentSelector">
  <hint shorthand="configurable"
    class="org.apache.lenya.cms.ac2.ConfigurableAccessControllerResolver"/>
  <hint shorthand="publication"
    class="org.apache.lenya.cms.ac2.PublicationAccessControllerResolver"/>
  <hint shorthand="composable"
    class="org.apache.lenya.cms.ac2.ComposableAccessControllerResolver"/>
</role>
```

## 3. Declaring the Access Controller Resolvers in cocoon.xconf

```
<access-controller-resolvers>
  <component-instance logger="lenya.ac.accesscontrollerresolver.publication"
    class="org.apache.lenya.cms.ac2.PublicationAccessControllerResolver"
    name="publication">
  </component-instance>
  <component-instance logger="lenya.ac.accesscontrollerresolver.global"
    class="org.apache.lenya.cms.ac2.ConfigurableAccessControllerResolver"
    name="global">
    <access-controller type="global"/>
  </component-instance>
  <component-instance logger="lenya.ac.accesscontrollerresolver.composable"
    class="org.apache.lenya.cms.ac2.ComposableAccessControllerResolver"
    name="composable">
    <resolver type="publication"/>
    <resolver type="global"/>
  </component-instance>
</access-controller-resolvers>
```

```
</component-instance>
</access-controller-resolvers>
```

## 4. Publication Access Controller Resolver

The `PublicationAccessControllerResolver` looks for a `config/ac.xconf` file inside the publication. If you want to use multiple `AccessControllers` within your Lenya installation, just declare them in the `cocoon-xconf.xml` file and choose the type in the `config/ac.xconf` file:

```
<?xml version="1.0"?>
<access-controller type="publication-file">
  <authorizer type="usecase">
    <config-file
      src="context:///lenya/pubs/default/config/ac/usecase-policies.xml"/>
    </authorizer>
    <accreditable-manager>
      <parameter name="directory"
        value="context:///lenya/pubs/default/config/ac/passwd"/>
    </accreditable-manager>
  </access-controller>
```

As you see here, you can put additional configuration code inside the `<access-controller>` element. This allows you to use the same `AccessController` type for multiple publications with different configurations.

## 5. Configurable Access Controller Resolver

The `ConfigurableAccessControllerResolver` can be configured with an `AccessController` directly inside `cocoon.xconf`:

```
<component-instance logger="lenya.ac.accesscontrollerresolver"
  class="org.apache.lenya.cms.ac2.ConfigurableAccessControllerResolver"
  name="global">
  <access-controller type="global"/>
</component-instance>
```

## 6. Composable Access Controller Resolver

The `ComposableAccessControllerResolver` is configured with a list of `AccessControllerResolvers`. Each one of these resolvers is invoked until one is successful. If no resolver finds an `AccessController`, the `ComposableAccessControllerResolver` returns `null`.

```
<component-instance logger="lenya.ac.accesscontrollerresolver"
  class="org.apache.lenya.cms.ac2.ComposableAccessControllerResolver"
  name="composable">
  <resolver type="publication"/>
  <resolver type="global"/>
```

## *Access Controller Resolvers*

```
</component-instance>
```