

Access Controllers

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1. Introduction

An *AccessController* has the responsibility to authenticate clients and to authorize requests.

2. Defining the Role in lenya.roles

```
<role name="org.apache.lenya.ac.AccessController"
  shorthand="access-controller"
  default-class="org.apache.lenya.ac.impl.BypassableAccessController"/>
```

3. Declaring an AccessController in cocoon.xconf

Each *AccessController* component needs a type that is attached to the `role` attribute, separated with a slash (/). This allows you to choose an *AccessController* in your publication in combination with the Publication [AccessControllerResolver](#) (`accesscontrollerresolvers.html`). The following example shows the declaration of an *AccessController* with the type *bypassable*:

```
<component logger="lenya.ac.accesscontroller.bypassable"
  class="org.apache.lenya.ac.impl.BypassableAccessController"
  role="org.apache.lenya.ac.AccessController/bypassable">
  ...
</component>
```

4. Default Access Controller

The *DefaultAccessController* combines an [Authenticator](#) (`authenticators.html`), a set of [Authorizers](#) (`authorizers.html`), an [AccreditableManager](#) (`accreditablemanagers.html`) and a [PolicyManager](#) (`policymanagers.html`) to perform these tasks.

```
<component logger="lenya.ac.accesscontroller.default"
  class="org.apache.lenya.ac.impl.DefaultAccessController"
  role="org.apache.lenya.ac.AccessController/default"/>
```

5. Bypassable Access Controller

The *BypassableAccessController* is a *DefaultAccessController* that can be bypassed for certain URL patterns. For URLs that match those patterns (regular expressions), access is granted for free.

The *BypassableAccessController* allows the definition of a regular expression for the public URL patterns:

```
<component logger="lenya.ac.accesscontroller.bypassable"
  class="org.apache.lenya.ac.impl.BypassableAccessController"
  role="org.apache.lenya.ac.AccessController/bypassable">
  <public>.*[.]css|.*[.]jpg|.*[.]gif</public>
</component>
```

6. Customizing Access Control

How can I store my users in a database?

You have to implement a *UserManager* which accesses the database to obtain the user information. Additionally, you have to implement an *AccreditableManager* which uses this *UserManager*. This *AccreditableManager* has to be declared in `cocoon.xconf` and assigned to your *AccessController* in `lenya/pubs/mypub/config/ac/ac.xconf`.