Access Controller Resolvers

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1. Introduction

In Lenya, the *AccessController* is chosen dynamically, depending on the requested URL. 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 ComposableAccessControllerResolver. The ComposableAccessControllerResolver itself uses the selector to obtain its child AccessControllerResolvers.

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

3. Declaring the Access Controller Resolvers in cocoon.xconf

```
<resolver type="global"/>
  </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.xsl file and choose the type in the config/ac.xconf file. The type attribute selects an *AccessController* from the definitions in cocoon.xconf.

You have to configure the complete *AccessController* in this file. For instance, if you want to use a *BypassableAccessController* together with a certain set of components, you declare it as follows:

```
<?xml version="1.0"?>
<access-controller type="bypassable">
  <accreditable-manager type="file">
    <parameter name="directory"</pre>
        value="context:///lenya/pubs/mypub/config/ac/passwd"/>
  </accreditable-manager>
  <policy-manager type="document">
    <policy-manager type="file">
      <parameter name="directory"</pre>
          value="context://lenya/pubs/mypub/config/ac/policies"/>
    </policy-manager>
  </policy-manager>
  <authorizer type="policy"/>
  <authorizer type="usecase">
    <parameter name="configuration"</pre>
        value="context:///lenya/pubs/default/config/ac/usecase-policies.xml"/>
  </authorizer>
  <authorizer type="workflow"/>
</access-controller>
```

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.ac.impl.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.ac.impl.ComposableAccessControllerResolver"
    name="composable">
    <resolver type="publication"/>
    <resolver type="global"/>
    </component-instance>
```