

CayenneIntegration

[ChristianMittendorf](#): I've done some testing on [HiveMind](#) integration of Cayenne. My solution requires your webapp to use servlet specification 2.4 or newer (see [WebApplicationContextProvider](#)).

Put this listener entry into your application web.xml. This entry will put a [DataContext](#) into your session and bind it automatically to the request.

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd"
  version="2.4">

  <display-name>...</display-name>
  [...]
  <listener>
    <listener-class>org.objectstyle.cayenne.conf.WebApplicationContextProvider</listener-class>
  </listener>
  [...]
</web-app>
```

Describe the new service in a hivemind.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<module id="de.example.hivemind" version="0.0.1">

  <service-point id="dataContextService" interface="de.example.hivemind.DataContextService" />

  <implementation service-id="dataContextService">
    <invoke-factory>
      <construct class="de.example.hivemind.impl.DataContextServiceImpl" />
    </invoke-factory>
  </implementation>

</module>
```

Create the Interface for the new Service:

```
package de.example.hivemind;

import org.objectstyle.cayenne.access.DataContext;

public interface DataContextService
{
    public DataContext getDataContext();
}
```

and then write the implementation:

```
package de.example.hivemind.impl;

import org.objectstyle.cayenne.access.DataContext;
import de.example.hivemind.DataContextService;

public class DataContextServiceImpl implements DataContextService
{
    public DataContext getDataContext()
    {
        return DataContext.getThreadDataContext();
    }
}
```

The following extension has not been tested, but it should make this service work in other applications than webapps:

```
package de.example.hivemind.impl;

import org.objectstyle.cayenne.access.DataContext;
import java.lang.IllegalStateException;
import de.example.hivemind.DataContextService;

public class DataContextServiceImpl implements DataContextService
{
    public DataContext getDataContext()
    {
        DataContext dc = null;
        try {
            dc = DataContext.getThreadDataContext();
        } catch (IllegalStateException e) {}
        if(dc == null) {
            // Attention, this will not work in Web context if you
            // forgot to include the WebApplicationContextProvider, because
            // the DataContext is not bound to the http session!
            dc = DataContext.createDataContext();
            DataContext.bindThreadDataContext(dc);
        }
        return dc;
    }
}
```