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**Intermediate ColdSpring:
Remote CFCs**

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Who is Tom ?

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- ColdFusion 4.5+
- Flex 1.x+

- Posts everywhere
- Moderates Flex mailing lists
- Adobe Community Help

- 1000+ user major UK law firm
- Many custom internal applications
- Award winning extranets

Remote CFCs

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You have a ShoppingBasket.

How do you expose that to clients ?

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Talking to clients not like talking to your friends

The Shopping Basket

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```
<beans>
  <bean id="TaxCalculator" ...
    <constructor-arg name="TaxRate">
      <value>1.175</value>
    </constructor-arg>
  </bean>

  <bean id="ShoppingCartBean" ...
    <constructor-arg name="TaxCalculator">
      <ref bean="TaxCalculator"/>
    </constructor-arg>
  </bean>
</beans>
```

Remote Facades

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```
<cfcomponent>
    <cffunction name="addToBasket" ....
        <cfargument ....
            <cfset
shoppingCartBean.addToBasket(arguments.itemId) />
        </cffunction>
</cfcomponent>
```

```
<cfcomponent>
  <cffunction name="addToBasket" ....
    <cfargument ....

    <cfset
shoppingCartBean=application.beanFactory.getBean(...
  <cfset
shoppingCartBean.addToBasket(arguments.itemId) />
  </cffunction>
</cfcomponent>
```

```
<cfcomponent extends="ServiceBase">
  <cffunction name="addToBasket" ....
    <cfargument ....
    <cfset var returnStruct=structNew(>
    <cfset returnStruct.itWentOK=false>
    <cfset super.init()/>
    <cftry>
      <cfset shoppingCartBean=
        application.beanFactory.getBean(...
    <cfset returnStruct.data=
      shoppingCartBean.addToBasket
        (arguments.itemId) />
      <cfset returnStruct.itWentOK=true>
    <cfcatch>
      ...
    </cftry>
    <cfreturn returnStruct
  </cffunction>
```


Stop cutting and pasting **Halliwells**

ColdSpring can generate a remote
facade for you

Stop worrying

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The underlying bean
doesn't have to care

RemoteFactoryBean

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```
<bean id="remoteBasketService"  
class="coldspring.aop.framework.RemoteFactoryBean">  
  <property name="target">  
    <ref bean="ShoppingBasket" />  
  </property>  
  <property name="serviceName">  
    <value>Basket</value>  
  </property>  
  <property name="relativePath">  
    <value>/your/CFC/path/remote/</value>  
  </property>  
  <property name="remoteMethodNames">  
    <value>*</value>  
  </property>  
</bean>
```

Facade Startup

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Gotcha !

BeanFactory must be started to generate CFC

FacadeStarter

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com.falkensweb.aop.FacadeStarter
code demo

Problems

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Where can you report errors ?

Where do you put security checks ?

Where do you put logging ?

These are 'cross cutting'

AOP Terms



Pointcut

Named

Regular Expression

Advice

Before

Around

After

Proxy

Target

Remote Exceptions

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Remote Exception
code demo

Security Without Session **Halliwells**

Security Token
code demo

Tame the XML

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Parent/Abstract Bean
code demo

Peddle to the metal ?

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All these Aspects are fast, at run time.
Very fast.

But ...

Summary

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Remote Facades with RemoteFactoryBean

Address cross-cutting concerns with AOP advice

Together, a very powerful pair

Intermediate ColdSpring: Remote CFCs

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Blog:

<http://rachaelandtom.info/blogs/falken>

<http://rachaelandtom.info/search/node/coldspring>

Code:

<http://falkensweb.com/other.html>

ColdSpring Users:

<http://groups.google.com/group/coldspring-users>

Chris Scott:

<http://cdscott.blogspot.com/2005/10/coldspring-aop-tutorial-part-one.html>

