

WEBMANIACS 2008 IMPLEMENTING BLAZEDS (FLEX WITH JAVA)

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 umAndy

UNIVERSAL MIND IS HIRING!!



- Sr. Consultant, Universal Mind
- UM is a 2007 Inc. 500 Honoree
- 10+ Years Experience In Software Development
- ASP --> Java --> ColdFusion --> Flex & AJAX
- Multiple Publications on Flex, Java, & ColdFusion
- <http://www.infoaccelerator.net>



- Using Java Objects as Remote Objects
- Inter-Application Messaging With JMS
- Factories For Object Creation
- Binary Remoting Without AMF



The Technologies



- **Using Java Objects as Remote Objects**
- Inter-Application Messaging With JMS
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- Binary Remoting Without AMF



What Is Remoting?

- The Ability to Call POJOs as ActionScript Local Objects
- Integration With Existing Java Security Policies
- Transparent Data Transfer Between Java and ActionScript
- No Need To Write Marshalling Code
- Improved Transfer Performance via AMF



- Two Types
 - Remoting Proxy
 - Remoting Service
 - Java or ColdFusion
- Configured In: services-config.xml or Inline In Application
 - Must Specify Location of services-config.xml To Compiler



SHOW ME THE CONFIG



- `<mx:RemoteObject>`
 - concurrency
 - destination
 - id
 - endpoint
 - showBusyCursor
 - source
 - makeObjectsBindable
 - fault
 - result



**SHUT UP AND
SHOW ME THE DAMN
CODE**



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- What Is JMS?
 - Java Message Service API
 - Message Oriented Middleware API
- API For Sending Messages Between Two or More Clients
- Allows For Loosely Coupled Distributed Communication

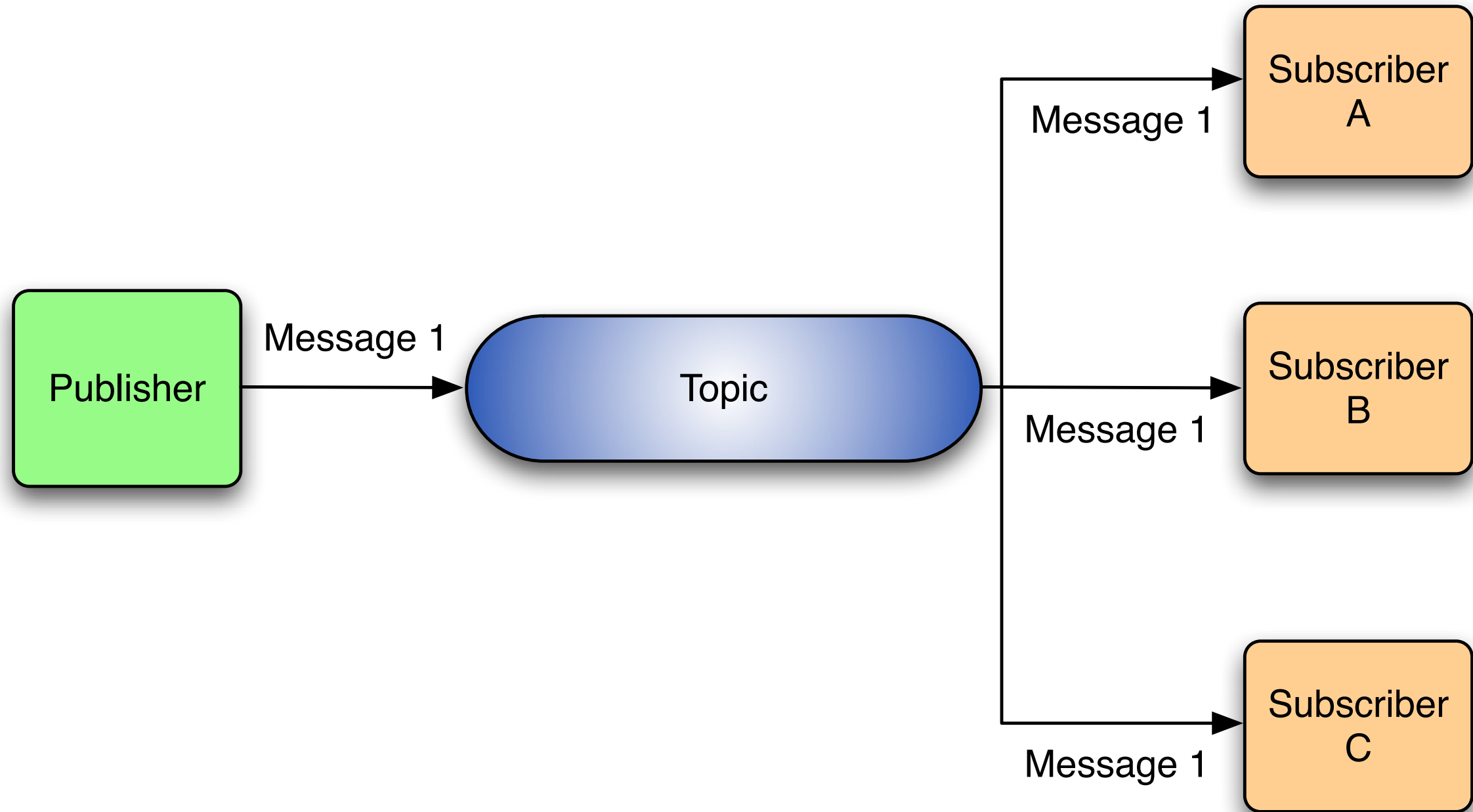


Messaging With JMS

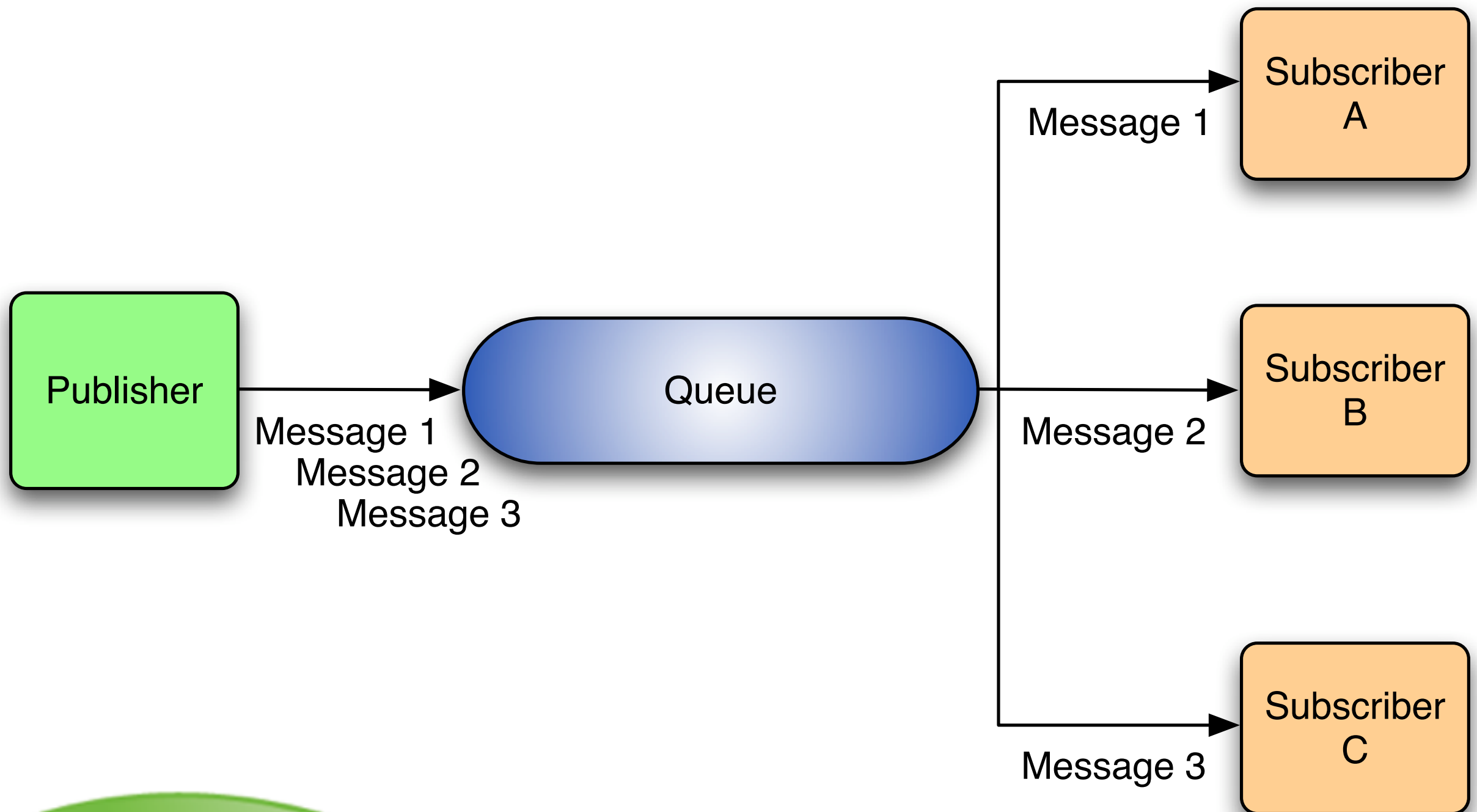
- JMS Models
 - Topic
 - Publish / Subscribe
 - Queue
 - Point-To-Point



Messaging With JMS



Messaging With JMS



JMS Configuration

- Configured In services-config.xml
- Local Server Or Remote
- **ANY** JMS Implementation Will Work (*It is a standard after, all*)
 - JBoss Messaging a.k.a. JBossMQ
 - ActiveMQ
 - JRun - CoreMQ



SHOW ME THE CONFIG
YOU CODE MONKEY



Why Use JMS?

- Ability To Send Either:
 - Plain Text
 - Objects
- Messaging Between Diverse Clients
 - All Clients Use The Same Queue / Topic
 - AIR / Flex / Swing / JavaFX



SHOW ME THE SUPER SEXY CHAT SAMPLES



- Using Java Objects as Remote Objects
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- Factory - Your Own Component Creation and Maintenance System
- Allows Integration With:
 - EJB
 - Spring
- Configured In services-config.xml



Factory Configuration

```
<factories>
```

```
  <factory id="spring" class="flex.samples.factories.SpringFactory"/>
```

```
</factories>
```



```
<destination id="WeatherService">  
  <properties>  
    <factory>spring</factory>  
    <source>weatherBean</source>  
  </properties>  
</destination>
```



Factory Implementation

```
<destination id="WeatherService">
```

```
  <properties>
```

```
    <source>weatherbean</source>
```

```
    <factory>spring</factory>
```

```
    <myfactoryinstanceattribute>myAPIKey</myfactoryinstanceattribute>
```

```
  </properties>
```

```
</destination>
```

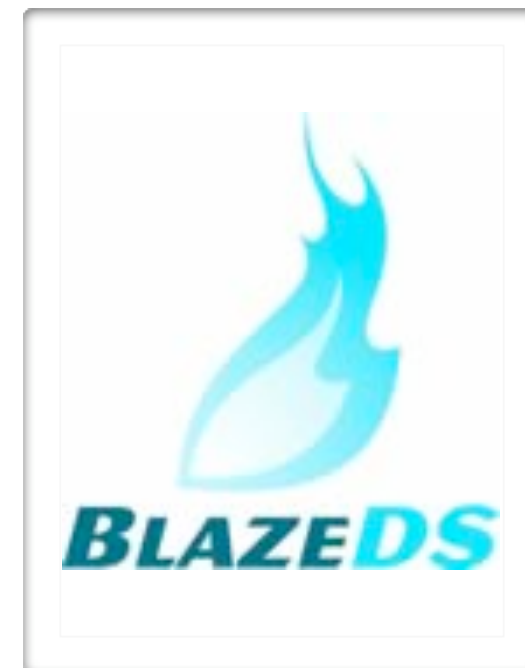


SHOW ME THE SUPER COOL CONFIG FILES



Functionality So Far...

NOTHING You've Seen
Requires LCDS



- Using Java Objects as Remote Objects
- Inter-Application Messaging With JMS
- Factories For Object Creation
- **Binary Remoting Without AMF**

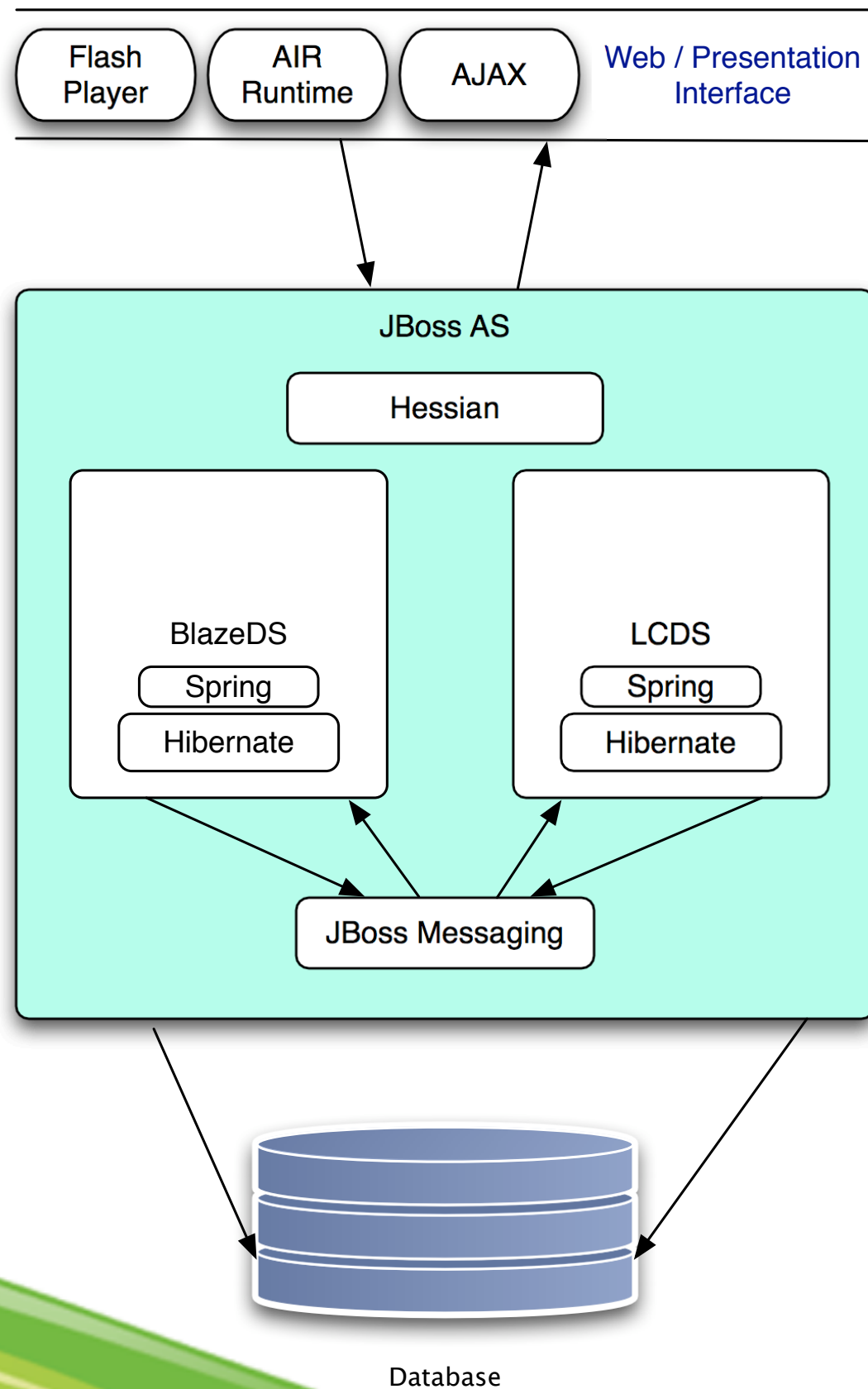


- Binary Web Service Protocol
- Very Lightweight Compared To AMF
- Eliminates Need For External API Descriptors (WSDL, etc.)
- Configurable Stand-Alone or Via Spring
 - J2EE Servlet or Spring Wrapper



**SHOW ME THE REALLY
COOL CODE THAT WILL
LEAVE ME IMPRESSED**





One More Thing....



dpHibernate

- Not as dirty as it sounds
- Lazy Loading without LCDS
- Lazy Loading without LCDS
- Interested?
 - More details can be had with scotch



- <http://opensource.adobe.com/wiki/display/blazeds/BlazeDS>
- <http://www.springframework.org>
- <http://hessian.caucho.com>
- <http://blog.universalmind.com>



Q&A

