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A ColdFusion, Flex & AIR Conference

AIR Messaging: Integrating AIR, BlazeDS, and ColdFusion

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CF

Fx

AIR

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www.cfunited.com

about me

- * received degree in computer science in 2000
- * Web developer since 2000
- * member of Team Macromedia/Adobe Community Experts since 2001
- * certified Flash/ColdFusion developer since 2003
- * Nashville ColdFusion User Group Manager
- * blog: www.trajiklyhip.com/blog
- * coming soon: www.aaronwest.net
- * twitter: www.twitter.com/awest

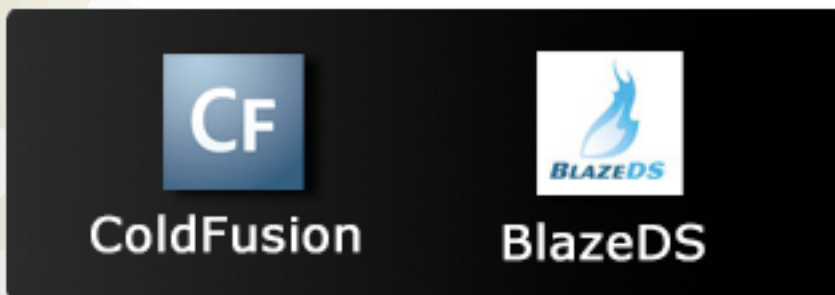


topics / goals

- * understand what BlazeDS is and is not
- * understand how BlazeDS and ColdFusion can be integrated
- * understand one business case for BlazeDS and the MXML/AS3 code used under the hood
- * know how to proceed on your own

technology stack

Browser application



AIR application



What is BlazeDS?

- * BlazeDS is the server-based Java remoting and web messaging technology that enables developers to easily connect to back-end distributed data and push data in real-time to Adobe® Flex® and Adobe AIR™ applications for more responsive rich Internet application (RIA) experiences.*
- * components of BlazeDS
 - * remoting
 - * messaging
 - * proxy
- * AMF payloads and AMF Serialization

*from <http://opensource.adobe.com>

pull versus push

- * pull - what you've grown to love (maybe)
 - * HTTP request / response
 - * Web services
 - * Remote Procedure Call (RPC) messaging pattern
- * push - the "new hotness"
 - * streaming
 - * RTMP (Real Time Messaging Protocol)
 - * RTMPT
 - * RTMPS

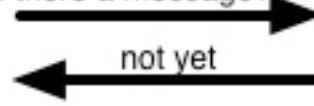
BlazeDS messaging in-depth

- * asynchronous messaging pattern
- * adapters include: cfgateway, actionscript, JMS (Java Messaging Services)
- * publish and subscribe model
 - * `<mx:Producer />`
 - * `<mx:Consumer />`
- * polling
- * long-polling
- * streaming

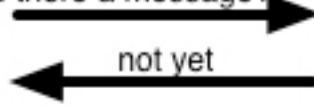
polling illustration



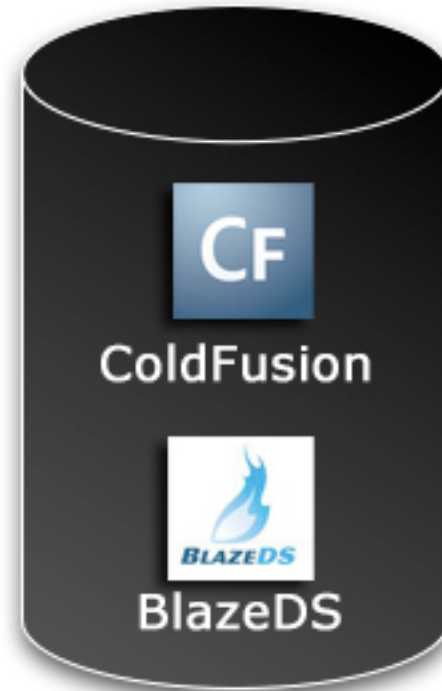
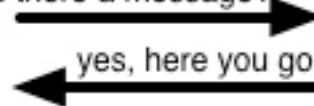
is there a message?



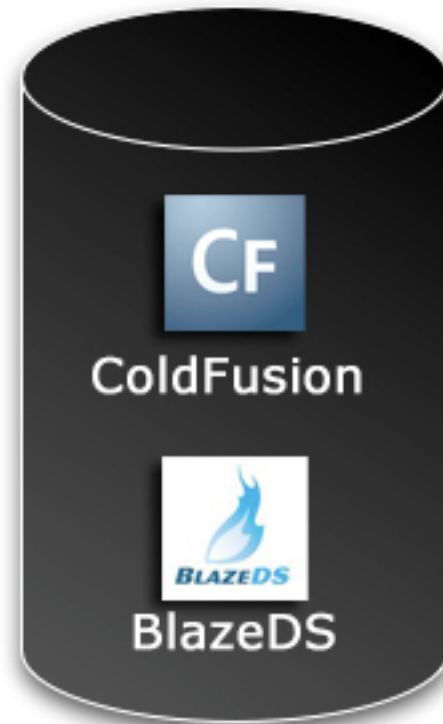
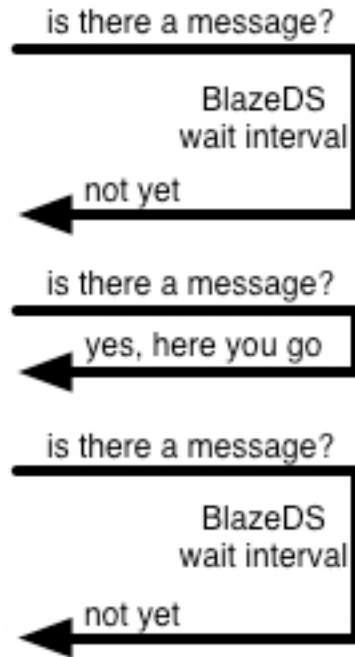
is there a message?



is there a message?



long polling illustration



messaging communication flow



ColdFusion Gateways and BlazeDS

- * event gateways introduced in ColdFusion MX 7
- * use gateway type DataServicesMessaging
- * SendGatewayMessage(destinationID, message)
- * onIncomingMessage(struct)

building a real-world app



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more info

- * installing BlazeDS within CF8 (my video demo)
<http://tinyurl.com/583osq>
- * <http://opensource.adobe.com/blazeds/>
- * http://livedocs.adobe.com/blazeds/1/blazeds_devguide/splash.html
- * Seth Hodgson on BlazeDS/LCDS channels
<http://tinyurl.com/4xdsrc>



Thank you!

I highly appreciate and value your honest feedback, so please fill out the session survey!

Online version: www.tinyurl.com/cfunitedsurvey

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