Streaming Real-Time Data into Xcelsius Applications

Using the Xcelsius Connector for Adobe LiveCycle Data Services ES

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AGENDA

1. Adobe/Business Objects partnership
2. Overview of Xcelsius Connector for LCDS
   1. What is it
   2. Value proposition
   3. Demo
3. Overview of LiveCycle Data Services ES (LCDS)
4. Build an Xcelsius application with a real-time data feed
5. Q&A
Adobe/Business Objects Partnership

- October 2007 - Business Objects and Adobe announce strategic alliance agreement at Adobe MAX

- March 2008 - Xcelsius shipped with:
  - A new connector enabling access to LCDS
  - Connector enables Xcelsius applications to receive real-time data
  - A copy of LiveCycle Data Services (Express) on the media

- August 2008 - Xcelsius 2008 SP1 adds new export option: AIR

- Other integration points are in-process

- SAP is Adobe’s largest ISV partner
  - Merger between two large partners equals greater opportunity for both companies
Overview of Xcelsius Connector for LCDS
Introduction to the Connector

- Xcelsius 2008 shipped March 12\textsuperscript{th} with:
  - A copy of LiveCycle Data Services (Express) on the media
  - A new connector enabling access to LCDS

- Connector offers new data access option
  - Stream real-time data into rich Xcelsius visualization tools
  - Create low latency, highly scalable and data consistent dashboards and widgets
New Option in Connectivity Tier

Development Time

Visualization Tier

XCELSIUS® ENGAGE

Connectivity Tier

XML

SOAP-BASED WEB SERVICES

AUTOMATIC WEB SERVICES GENERATOR

ADOBE® LIVECYCLE® DATA SERVICES

Run Time

Publish To:
Crystal Reports 2008
Microsoft Office
Adobe PDF & SWF
HTML
Corporate Portals

Data Source Tier
LCDS Option in Data Manager
Features and Benefits

- Xcelsius with LCDS can:
  - **Transform your day-to-day business processes with intelligent information**
    - Combine historical and real-time information in a complete BI context
    - Accelerate delivery of information in the tools your front-line staff use
  - **Deliver business performance with real-time Operational BI**
    - Monitor large amounts of transactional data in easy to use visualizations
    - Responding to changing business conditions faster via event-driven dashboards
  - **Optimize your daily IT operations**
    - Minimize load to infrastructure caused by frequent information requests (updates are pushed to clients only when there are changes)
    - Enable business users to create operational dashboards on their own
Demo
Overview of LiveCycle Data Services ES
**LiveCycle Data Services Overview**

- Platform and services for Flex clients talking to Java/JEE servers

- Brings **rich data** to rich internet applications
  - More control
  - More efficient
  - Easier to code and maintain
Data Connectivity Challenges

- The evolution to more engaging rich Internet applications (RIAs) has created the need for better data connectivity options
- Performance is not sufficient with XML/SOAP over HTTP for rich clients
- Inability to easily reuse existing server-side business logic
- No standard way to push data from server to client
- No real messaging model to exchange data between RIA clients and servers
LiveCycle Data Services is a set of Java EE components and APIs used to:

- Create data-intensive RIAs with less code, less risk, and accelerated time to market due to an innovative client-server programming model
- Integrate RIAs with existing applications, back-end data, and JEE infrastructure
- Easily integrate RIAs with LiveCycle document and process services
- Enable collaboration, offline AIR and real-time data streaming applications to be built in a scalable and reliable manner with robust publish and subscribe messaging
- Generate PDF documents from RIAs that include graphical assets
Real-time data applications

Example applications:

- Real-time stock monitor
- Real-time news feed applications

Customers looking to integrate real-time third-party data feeds with no screen refresh and no client/server polling
Real-time Xcelsius Applications

App Server

Presentation Tier | LiveCycle Data Services

J2EE Business Tier | Business and Transaction Logic (Java)

Integration Tier | Connectors to Data and Legacy Systems

Resource Tier | DBMS, LDAP, CRM/ERP/CM, Web Svcs.
How the Xcelsius Connector Works – Component View

Xcelsius Application

LiveCycle Data Services ES

LCDS Connector
Consumer Component

RTMP AMF HTTP

Xcelsius Servlet
Message Services

Endpoint

Adapter X
Adapter Y
JMS Adapter
JMS Provider
Messaging System X
Messaging System Y

Publisher
Subscriber
Configuring LCDS for Xcelsius

1. Install LCDS
2. Add XLCDSServlet
3. Declare servlet in web.xml
4. Add Xcelsius-config files
5. Define destination in Xcelsius-config.xml
Build an Xcelsius application with a real-time data feed
Additional Resources

- **LCDS overview**

- **LCDS Test Drive**
  - Eight concise sample apps installed with the product

- **LCDS full documentation:**

- **LCDS 2-day training:**
Summary

- Xcelsius 2008 now includes a connector enabling applications to access data services from LCDS
- Customers can now create rich, dynamic and real-time dashboards that help them move towards operational BI
- Setting up a data stream is not complex and can be accomplished without the need for intensive IT-support
- Xcelsius with LCDS creates a more compelling reason to purchase or upgrade to the newest version of Xcelsius
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