



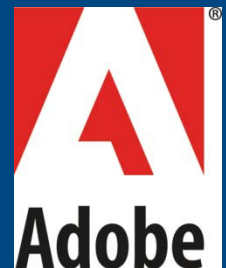
Global
BusinessObjects
Network

Streaming Real-Time Data into Xcelsius Apps

Using the Xcelsius Connector for Adobe LiveCycle Data Services

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Business Objects User Conference
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AGENDA

1. Adobe/Business Objects partnership update
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 one of Adobe's largest ISV partner
 - Merger between two large partners equals greater opportunity for both companies

OVERVIEW OF XCELSIUS CONNECTOR FOR LCDS

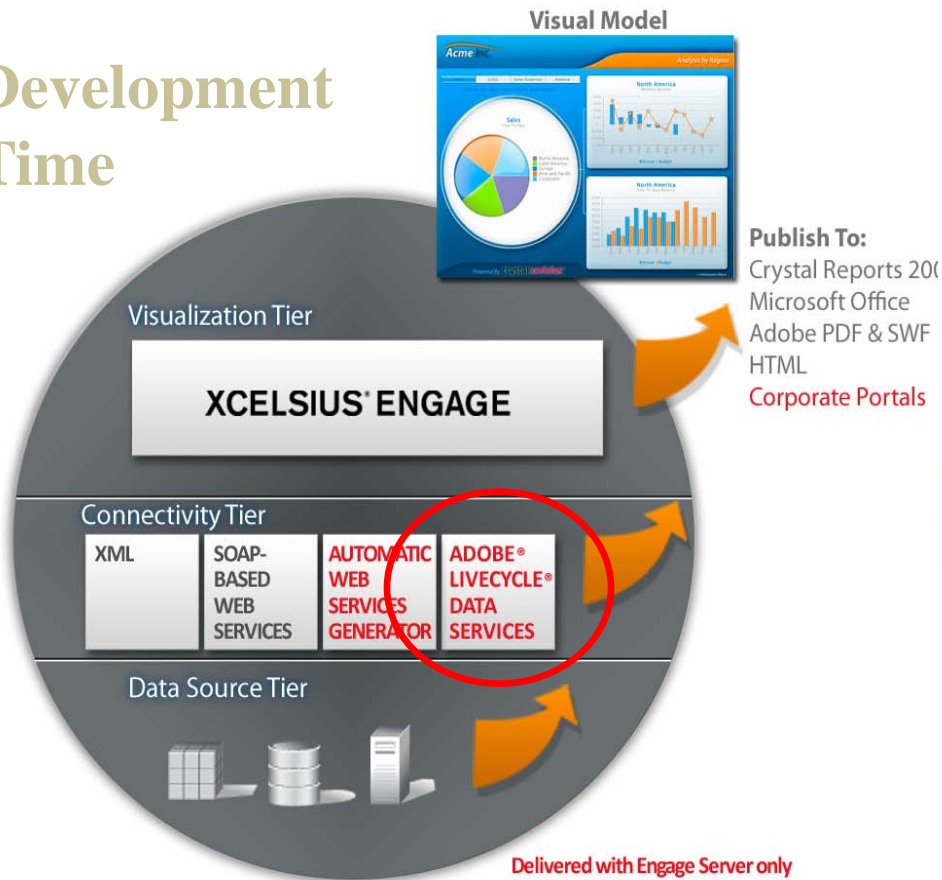


Introduction to the Connector

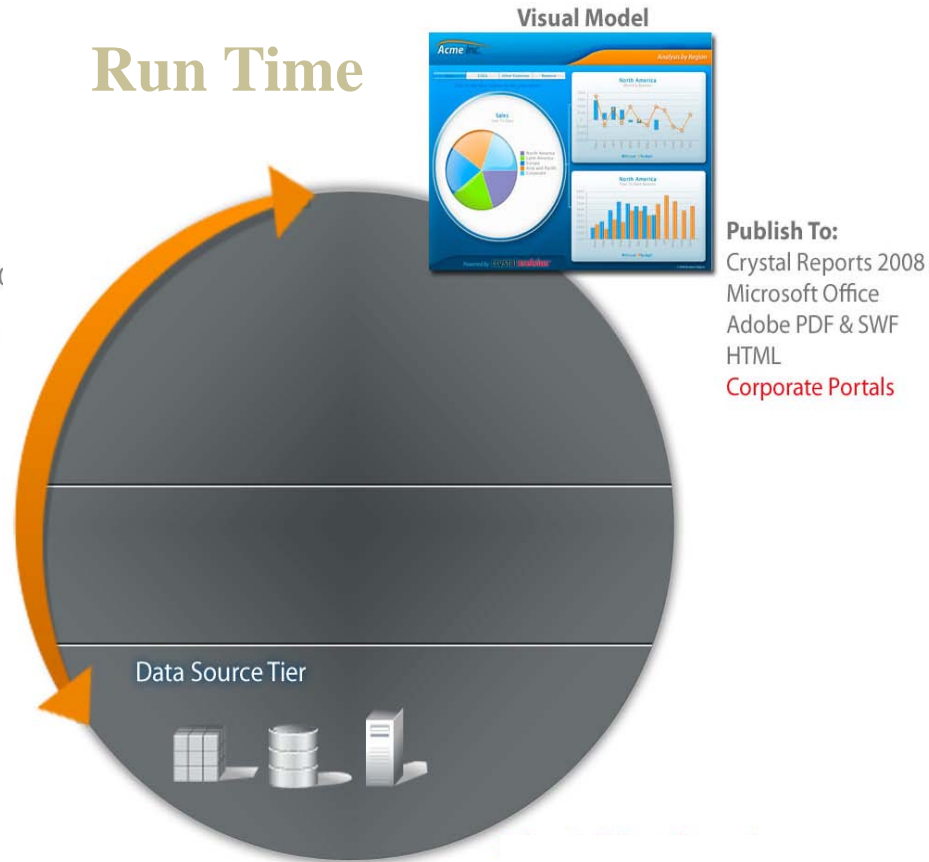
- Xcelsius 2008 shipped March 12th with:
 - A copy of LiveCycle Data Services (Express) on the media
 - A new connector enabling access to LCDS
- Connector offers new data access option
 - Stream real-time data into rich Xcelsius visualization tools
 - Create low latency, highly scalable and data consistent dashboards and widgets

New Option in Connectivity Tier

Development Time



Run Time



LCDS Option in Data Manager

The screenshot displays the Data Manager application interface. On the left, the 'New' menu is open, and the 'LCDS Connections' option is highlighted with a red circle. The main window shows a connection named 'Connection 1' with the type 'LCDS Connections'. The 'Definition' tab is active, showing a dropdown menu set to 'Local 2.5.1 LCDS instance' and buttons for 'Query' and 'Host...'. Below this, the 'Available Data Destinations' table lists two destinations: 'RandomNumbers' (Sample LCDS Feed) and 'CallCenterFeed' (Call Center Performance Indicators). The 'CallCenterFeed' row is selected. An 'Advanced >>' button is located below the table. At the bottom, the 'Destination Data' table lists five data elements with their types and shapes.

Id	Description
RandomNumbers	Sample LCDS Feed
CallCenterFeed	Call Center Performance Indicators

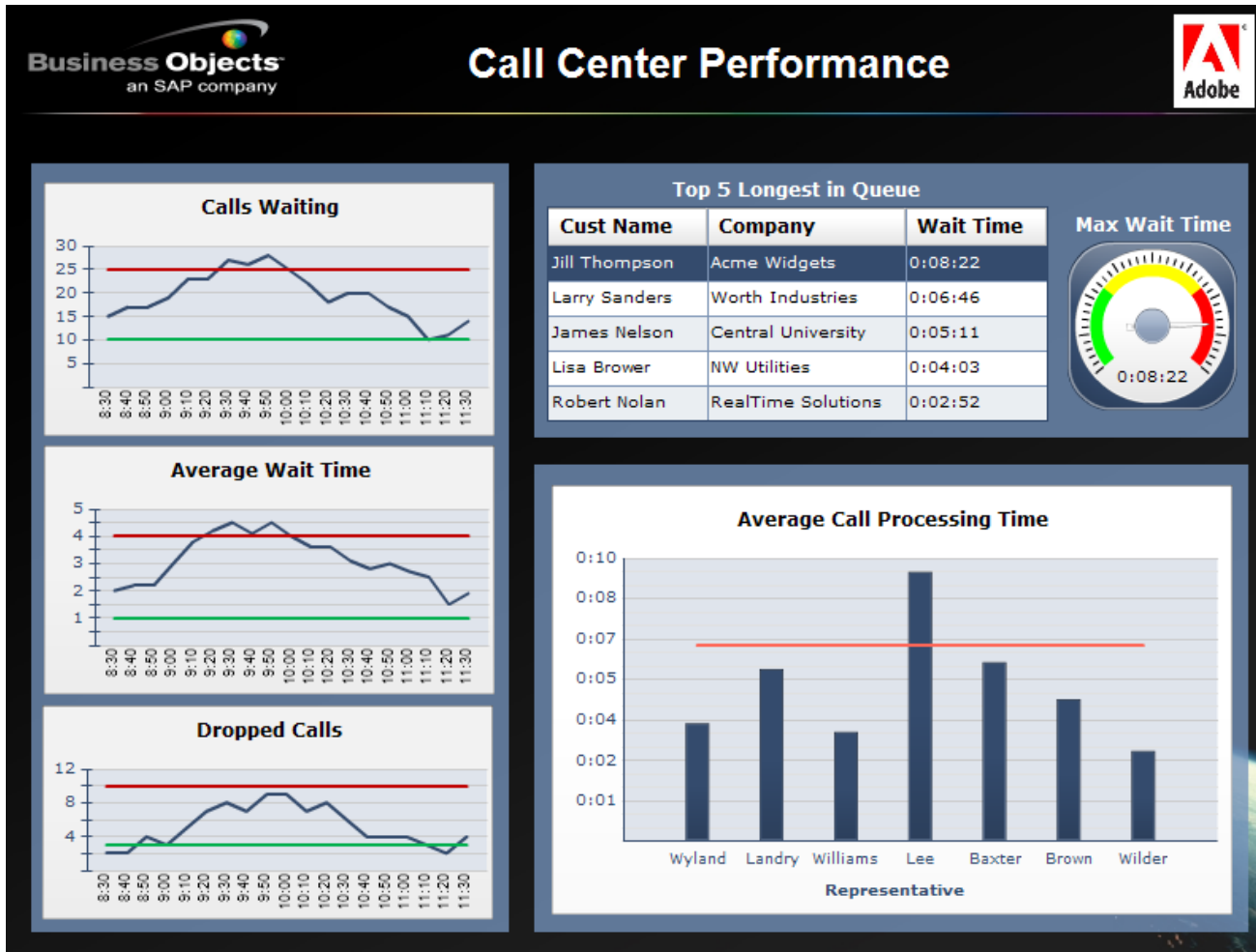
Data Element	Data Type	Shape
Calls Waiting	Array (Numbers)	2D
Average Wait Time	Array (Numbers)	2D
Dropped Calls	Array (Numbers)	2D
Top 5 Callers in Queue	Array (Numbers)	2D
Average Call Processing Time	Array (Numbers)	2D



Features and Benefits

- Xcelsius with LCDS can :
 - ***Transform business processes with intelligent information***
 - Combine historical and real-time data in a complete BI context
 - Accelerate delivery of data to 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
 - Respond faster to changing business conditions via event-driven dashboards
 - ***Optimize your daily IT operations***
 - Minimize load on infrastructure due to frequent data requests (updates pushed to clients only when there are changes)
 - Enable business users to create operational dashboards on their own

Demo

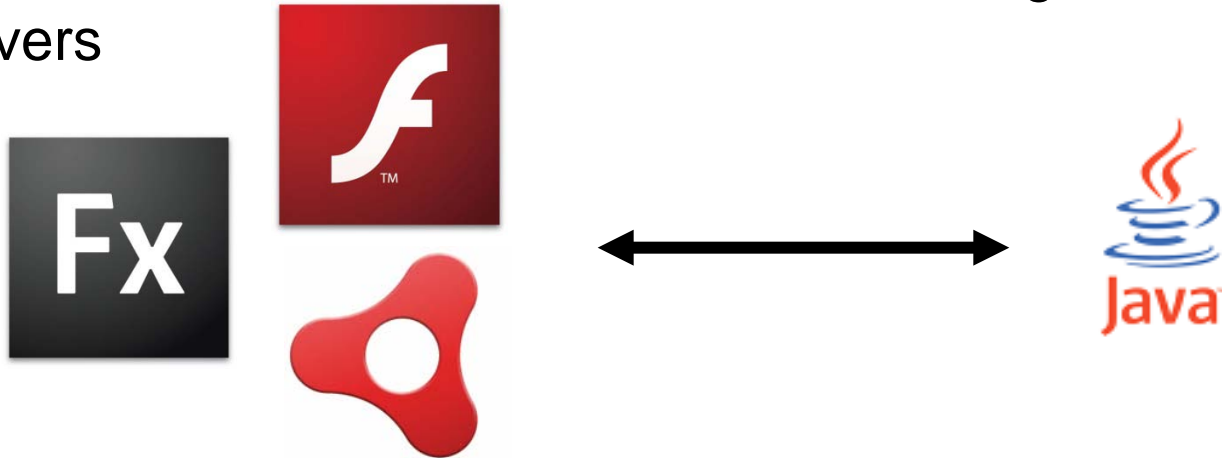


OVERVIEW OF LIVECYCLE DATA SERVICES ES



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



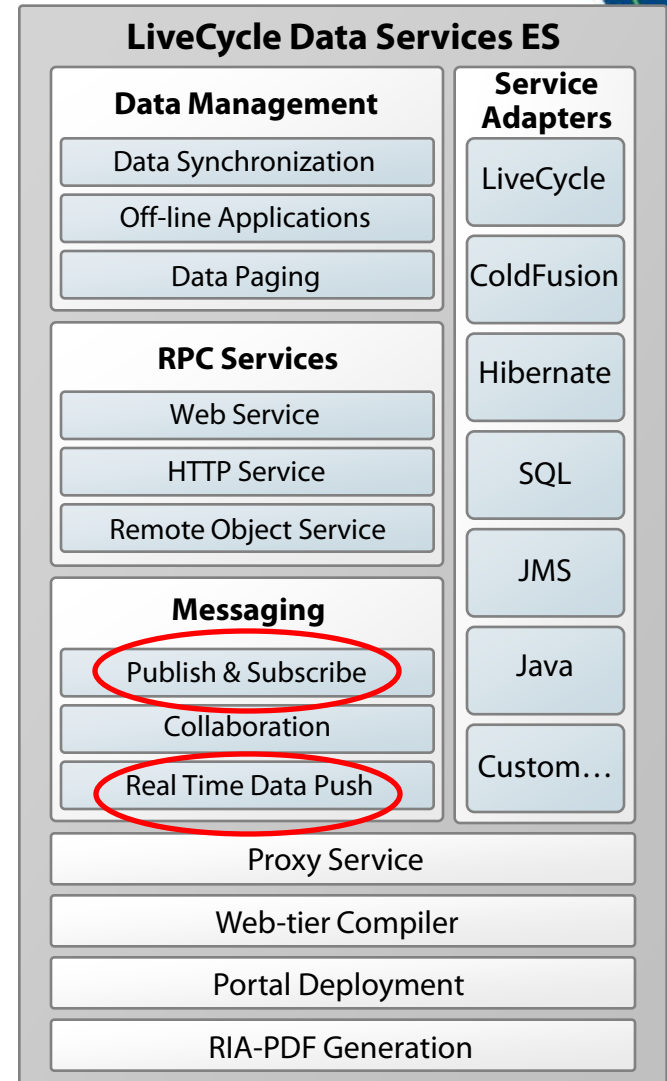
Data Connectivity Challenges

- 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

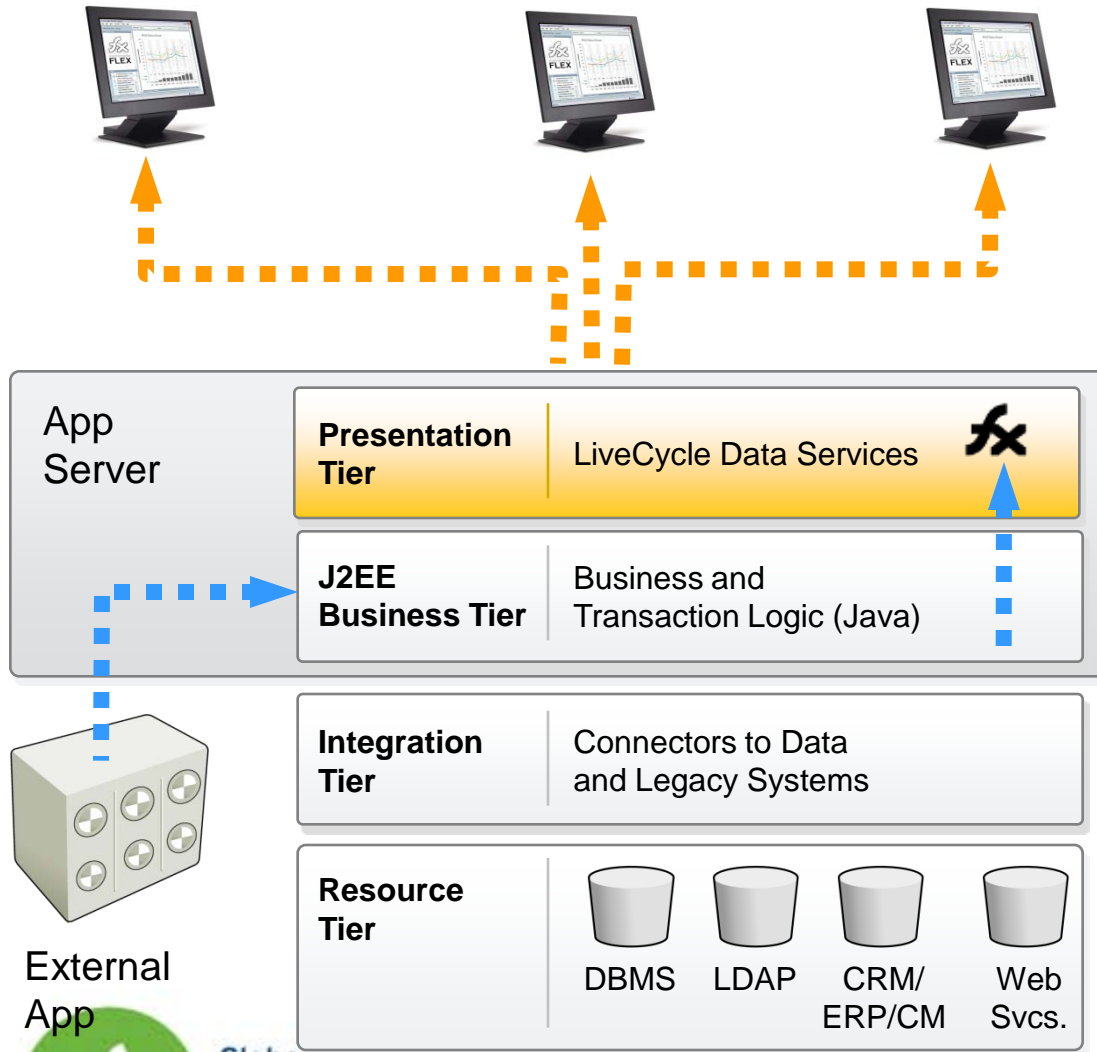
LiveCycle Data Services ES Overview

LiveCycle Data Services is a set of Java EE components and APIs used to:

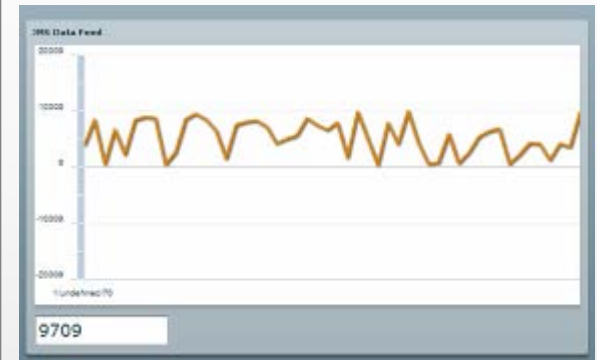
- Create data-intensive RIAs with less code, less risk, and accelerated time to market due to innovative client-server programming model
- Integrate RIAs with existing applications, back-end data, and JEE infrastructure
- Easily integrate RIAs with LiveCycle document and process services
- Enable collaboration, 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



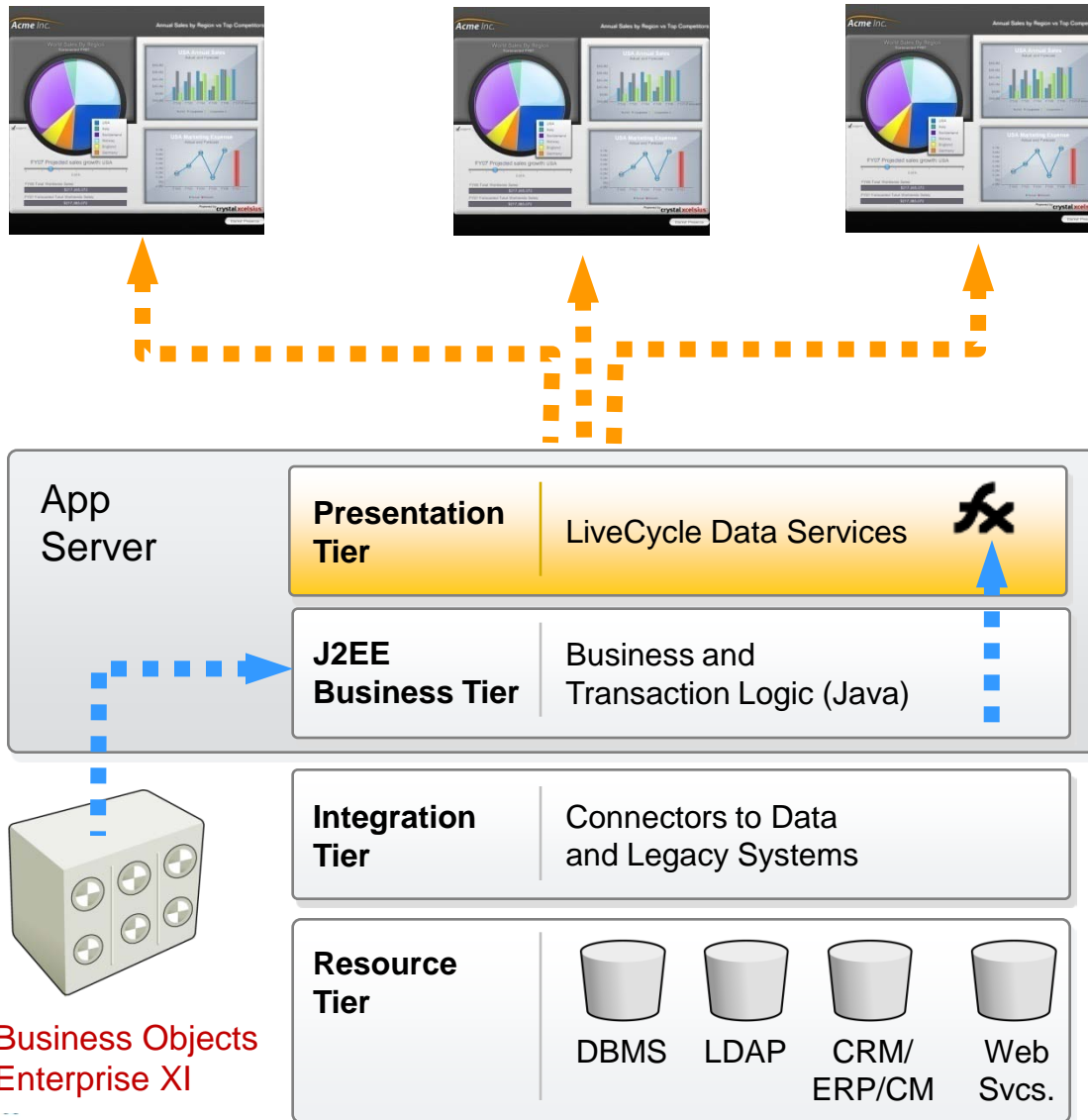
Example applications:



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

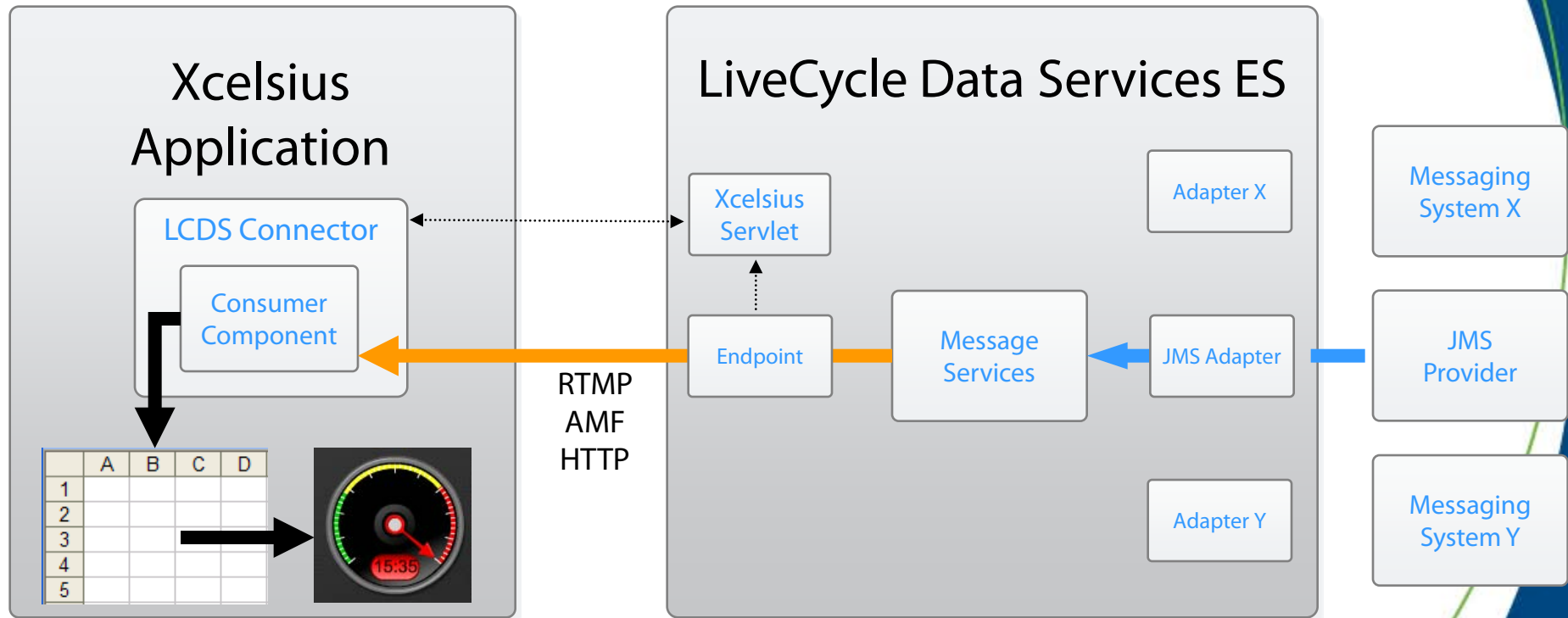
Customers looking to integrate real-time third-party data feeds with no screen refresh and no client/server polling

Real-time Xelsius Applications

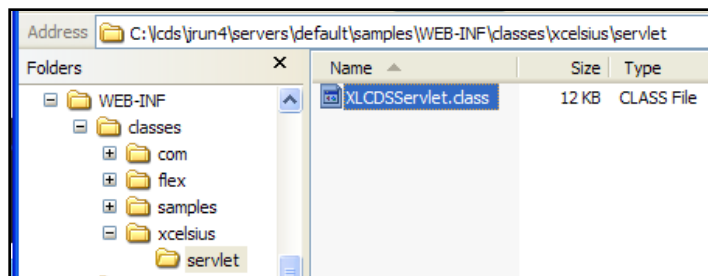
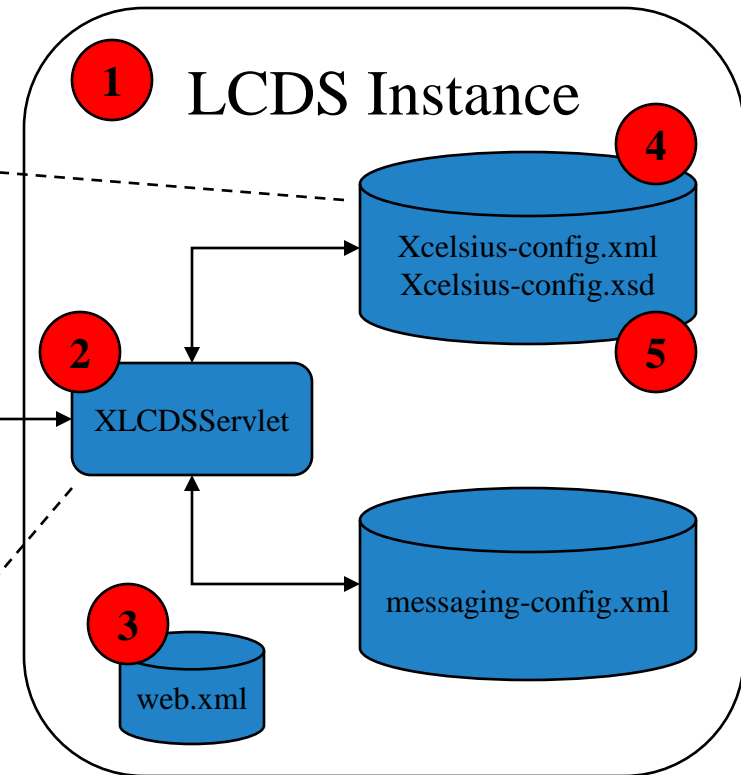
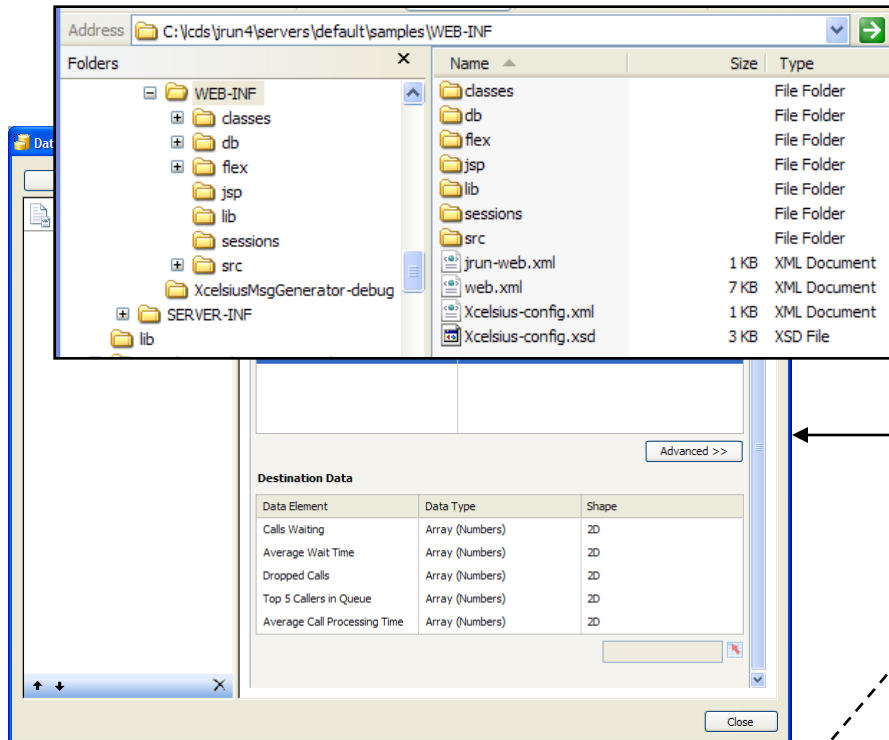


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How the Xcelsius Connector Works – Component View



Configuring LCDS for Xcelsius



1. Install LCDS
2. Add XLCDServlet
3. Declare servlet in web.xml
4. Add Xcelsius-config files
5. Define destination in Xcelsius-config.xml



BUILD XCELSIUS APPLICATION WITH A REAL-TIME DATA FEED



Additional Resources

- LCDS overview
 - <http://www.adobe.com/products/lifecycle/dataservices/>
- LCDS Test Drive
 - Eight concise sample apps installed with LCDS
 - <http://localhost:8700/samples/testdrive/>
- LCDS full documentation:
 - <http://www.adobe.com/support/documentation/en/lifecycle/>
- LCDS 2-day training:
 - http://www.adobe.com/support/training/instructor_led_curriculum/flex2_data_com.html
- Xcelsius Connector for LCDS Walk-thru

Summary

- The new release of Crystal Xcelsius has added new features and functionality with LC DS that should excite customers
- 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 for customers to purchase or upgrade to the newest version of Xcelsius

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Q&A

