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Informations valorisées et SOA, le couple gagnant. IBM SOA Summit



TA92 SOA: Une architecture jusqu'au poste de travail

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At the quest of a new Rich Client Platform ? Extend the SOA beyond the Data Center

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Lotus Expeditor

Architecture

Samples



... a service?

A repeatable business task – e.g., check customer credit; open new account



... service oriented architecture (SOA)?

An IT architectural style that supports integrating your business as linked services

"SOA impacts every aspect of IT and business."

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SOA & User Interaction





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"Through 2007, an <u>enterprise portal</u> will be <u>the first major application of SOA concepts</u> for more than 50 percent of enterprises (0.6 probability)."

Analytical source: Gene Phifer, Gartner Research; Publication Date: 12 October 2005/ID Number: G00132930 Gartner 10/12/05







"Good things" we learned from the past



Insulation from the native Operating System

- The browser is a device which allows a web page to be displayed (and executed...) independently from the underlying Operating System
- The browser provides an execution shell

Role-based interaction

- Most browser-based applications deliver content based on the user profile
- A "portal" is very good in Identification, Authorization and Authentication

Role-based aggregation

- Most modern browser interface provide content coming from aggregating different sources
- A "portal" is very good in Aggregating information

Zero Management

- The last version of an application is always delivered...
- … the browser "cache" plays a nice role

Zero-footprint

- The browser itself is not "zero footprint"...
- ... but the browser-applications are !

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Rich Client – Common Concepts

Establish a "Client-side Container" that

- Insulates from the Operating System
- Provides added-value services
- Defines a framework onto which to provide applications
- Rich desktop user experience and platform independence

High-performance extensible platform

- Client-side processing and caching
- More responsive user experience
- Lower server loads
- Local data access
- Intermittently-connected mode

Provide 360º aggregation and integration

- Both with the server
- ... but also with local, native-client applications
- … and with the "Internet" world !

... But with a "web-like" manageability model

- To avoid the high cost of deployment and management
- Central server-based application provisioning and policy

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Design Considerations

Topology

- Target device(s) (desktop, mobile device, or both)
- Device capabilities (processor speed, memory, form factor)
- Connectivity (always, intermittent, never or rarely)
- Network capabilities (speed, cost, reliability)

Interaction

- Web or portlet user interface
- Rich client application (GUI) user interface
- Service-only (i.e. no user interface aka "headless")

Business logic

- Online vs. offline operation
- Distribution across tiers
- Reusability across applications (and devices)

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Design Considerations (continued)

Persistence

- Online vs. offline operation
- Local data organization and access
- Local data protection (if any)
- Synchronization and conflict resolution
- Amount and frequency of data distribution
- Configuration

Messaging

- Online vs. offline operation
- Security
- Synchronous vs. asynchronous messaging
- Transactional, event-driven, web services

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Configuration

Management

- Componentization and distribution
- Data formats
- Serviceability

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At the quest of a new Rich Client Platform ? Extend the SOA beyond the Data Center



Architecture

Samples





Lotus Expeditor



A Server Managed Client platform that extends SOA apps to desktops, laptops, kiosks and mobile devices



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Increases responsiveness and improves end user productivity by accessing composite applications regardless of network connectivity



Key Aspects of Expeditor Client





"Extending SOA beyond the data center to People, Places, and Things"

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Lotus Expeditor: Web



Enables web-based applications to become part of desktop

Support all full featured web content

- HTML + CSS + DHTML + JavaScript
- Ajax (JWL, DoJo, Custom, Etc.)

Support Extensions

- "Common" Browser Plugins (e.g. Flash, PDF, etc.)
- Applets
- ActiveX Controls (Win2K, WinXP only)

Provide Lockdown Browser

- URL management
- Access Control

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Lotus Expeditor: Rich



Compelling user experience across platforms

Enable Platform native look and feel ...

Windows 2000	Windows 📃 🗆 🔀	
Widget Toolkit Standard Widget Efficient Portable Cross Platform Native Controls	Widget Toolkit Standard Widget Efficient Portable Cross Platform Native Controls Totally Awesome	Widget I oolkit Standard Widget ▼ Efficient Portable

- Enable Drag and Drop
- Enable Keyboard integration
- Enable 2D and Vector Graphics
- Enable Hardware Device Integration
- Enable protection from OS Level Changes

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Seamless Integration of client applications

Enable "Mashups" across pre-existing and new application types

- Swing, AWT, Native, .NET, Web, Portlet, Forms,
- RCP, Flash/FLEX, Text Terminal, Etc.
- Local data integration between apps
- Local event integration between apps
- Create new views on existing apps

Enable complete Desktop mgmt

- Optimize real estate
- Control overall look and feel
- Custom branding
- Configurable access



Workplace Forms

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Expeditor



Enable better responsiveness

- Minimal round trip to server(s)
- Improve end to end scalability
 - Locally hosted business logic

Enable transparent server interaction when server becomes available

- Outgoing Complete transactions when connected
- Incoming Refresh/Update local content when connected
- Enable mobility
 - "Full" disconnected for long periods of time (i.e.: on an airplane)

Lotus Expeditor: Managed Client



Install, configure and maintain both the platform & the applications

Enable flexible points of control

- One time setup; subsequent lockdown desktop
 Lockdown browser (URL, Access Control, etc.)
 Lockdown composite applications
- Dynamic, self managed by end user
- Dynamic centrally managed via server
 Continue to maintain a lockdown user view of the system
- Combinations of end user and central server managed

Enable central visibility

- Applications
- Configurations
- History, Inventory and Status

Enable remote access

Administrator scheduled jobs on the client

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Expeditor Mobile



The same value and services as desktop, enabled on mobile devices



Windows Mobile 5, Symbian

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Lotus Expeditor



Samples





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Foundation for Client Technologies



Operating System (multiple)

Footprint, Packaging

Function, Richer UI

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Client Architecture



Enterprise / ISV Applications



Lotus Expeditor Client for Desktop

End-to-End Connections with Expeditor and Portal servers

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Lotus Expeditor

Architecture

Lotus Expeditor – Core of Lotus Rich Clients

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Composite Application

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Our mission...

Make more people... more productive... in the context of what they do... everyday

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For more information...

IBM home page www.ibm.com Lotus software home page www.ibm.com/lotus Lotus Expeditor http://www.ibm.com/software/sw-lotus/products/product1.nsf/wdocs/expeditor

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