





# IBM Lotus Symphony Technical Overview

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**IBM** 

CREATED WITH LOTUS® SYMPHONY

2008年第6届OpenOffice\_rg世界开展

# Agenda



- IBM Lotus® Symphony<sup>™</sup> Overview
- Architecture of Symphony
- Integration of OpenOffice.org and Expeditor
- Programmability
- Performance Improvement
- Reference

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#### IBM Lotus<sup>®</sup> Symphony<sup>™</sup> Overview



- A set of office productivity applications
  - Create, edit, share documents, spreadsheets, and presentations
  - Based on OpenOffice.org and Eclipse
  - Support OpenDocument Format (ODF)
  - Support Microsoft® Office and other formats
- Available at no charge to anyone and everyone
  - www.ibm.com/software/lotus/symphony

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Web-based support and community forums



#### Architecture of Symphony



Symphony Toolkit API									
Content Recognizer	Spell Check	Preference Management	Symphony UI Items	Native View					
Security Service	Maile Merge	View Management	Bar)	Core Services	Core Functions (OpenOffice.Org based)				
	Ex	peditor Portfolio 6.2 for Sy	ymphony						
	EX	Operating Syster	mpnony n (Windows/Linux/Mac OS	5 X)					

# What is Expeditor?



- Common foundation for Lotus client-side products
- IBM adds a comprehensive set of services for building business applications. e.g. composite applications, component intercommunication, local web container, local relational database, enhanced user interface widgets, etc.
- Lotus Notes 8, IBM Lotus Sametime® 8, IBM Lotus Symphony® use a subset of the full Lotus Expeditor platform



#### Expeditor Portfolio for Symphony



- Reduced footprint
- May extend platforms with additional Lotus Expeditor features



#### Window Reparenting





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#### Architecture of Symphony



		Sym	phony Toolkit API		
ontent Recognizer	Spell Check	Spell Check Preference Management	Symphony UI Items	Native View	
Security Service	Maile Merge	View Management	(Menu/Tooldars/Status Bar)	Core Services	Core Functions (OpenOffice.Org based)
	Expe	editor Portfolio 6.2 for Sy	ymphony		
7		Operating System	n (Windows/Linux/Mac O	5 X)	

### Core function improvement





#### Improvement on C++ part



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- Accessibility
- Build
- I18N and Bidi Support
- Interoperability Improvement
- ODF Support
- Performance Improvement
- SmartSuite Filters

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- Stability Improvement
- Usability Improvement

#### **OpenOffice.org in Symphony UI**





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# Integration of OpenOffice.org and Expeditor





#### Deadlock Problems: Example one





#### Deadlock Problems: Example two





# Symphony on Mac OS X – Single Process OpenOf Conference 2008 Beijing Java Plugin soffice jni\_launchSoffice Launch soffice (desktop.dylib) Create Desktop initVcl App:Main App::Execute (Java Event loop) CREATED WITH LOTUS® SYMPHONY 16

#### Programmability



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- Extend Symphony functions
- Provides customer the capability to extend Symphony for a particular customer solution
  - Java API Support
  - VBA Support

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- Lotus Script Support

#### **Performance Improvement**



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- Asynchronous Document Loading
- Library Merge

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- Quick Save
- Preload or Quick Start

#### Reference: Symphony Sessions



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- Lotus Symphony extension model
- Accessibility in Symphony

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- Symphony performance improvement best practices
- Introduction of SMIL Animation and Implementation in IBM Lotus Symphony
- Properties Sidebar, make editing much easier
- Learn more about office users Feature usage study by document element statistics
- Visualize Writer Document Structure for Productive Development



