Lotus Symphony Extension Model

Jin Hua, Chen

IBM
Agenda

- Introduction and overview
- Lotus Symphony programmability
- Extending Lotus Symphony
- Lotus Symphony extension examples
- Future plan
- Q&A
IBM Lotus® Symphony™ Overview

A set of office productivity applications

- Create, edit, share documents, spreadsheets, and presentations
- Can handle the majority of tasks required by end users
- Support OpenDocument Format (ODF)
- Support Microsoft® Office and other formats

Available at no charge to anyone and everyone

- www.ibm.com/software/lotus/symphony
- Web-based support and community forums
Reference: Symphony Sessions

IBM Lotus Symphony Technical Overview
Lotus Symphony extension model
Accessibility in Lotus Symphony
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
Why extension?

- Developing independent third-party extensions
- Enrich the base functionality
- Linkage to customer's business logic and data
- Customizing for business need
Lotus Symphony architecture

- Lotus Symphony is a set of plug-ins and features based on a Symphony profiled Lotus Expeditor platform.

![Diagram showing Lotus Symphony architecture](image-url)
## Comparison with OpenOffice.org extensions

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<thead>
<tr>
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<th>Lotus Symphony extension</th>
<th>OpenOffice.org extension</th>
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<tbody>
<tr>
<td><strong>What's the technology base?</strong></td>
<td>Eclipse plug-in framework</td>
<td>OpenOffice.org UNO</td>
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<td>OpenOffice.org UNO</td>
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<td><strong>What's the extensions?</strong></td>
<td>Eclipse extension</td>
<td>UNO package</td>
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<tr>
<td><strong>What's the development language?</strong></td>
<td>Focus more on Java. OpenOffice.org developing language are supported</td>
<td>Python, Basic, Java, C++, etc.</td>
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<td><strong>What's the development tools?</strong></td>
<td>More friendly to Eclipse and Lotus Expeditor based tools</td>
<td>Quite a lot of tools for different languages.</td>
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<td><strong>How to deploy?</strong></td>
<td>Deploy via UI by end user</td>
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<td></td>
<td>Deploy from remote URL</td>
<td>Integrate into installation set</td>
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 Benefit from Lotus Expeditor

- To end users
  - An Eclipse-based rich client application
  - A world-class user interface across Lotus portfolio
  - An extendable platform more than a stand-alone product

- To business partners and developers
  - Integration and reuse
  - A world-class Java IDE
  - Native look and feel across platform
  - A customizable platform
  - Seamless tool integration
  - The ability to reuse knowledge and skills from the Expeditor and Eclipse ecosystem
Introduction to Symphony Programmability

- Programming model
  - OpenOffice.org programming model
  - Rich Client programming model
  - Composite Application programming model
  - Domino/Notes programming
  - Scripting model

- Symphony Toolkit
  - Developer's Guide
  - API Documentation
  - Samples
- Symphony Developer's forum
  - plug-ins
  - Issues and Troubleshooting
  - Hints and Tips
Rich Client Application programming model

Workbench window  Menu Bar  Toolbar

Page  Views  Status Bar
Composite application programming model

- Composite Applications are generally a collection of loosely coupled components that define a particular business logic. These components could be a mix of Notes components and Eclipse based Lotus Expeditor components.

- Symphony as an Eclipse based component in Notes 8.x
  - Properties
    - FileSaved
    - SelectionChanged
  - Actions
    - LoadFile
    - Insert
Domino/Notes programming

- Symphony is a great alternative for Notes office integration
- Typical scenario: controlling Symphony from Notes application
- LotusScript support is critical for Notes developers
  - COM based LotusScript APIs are not enough
  - Native LotusScript APIs are preferred
Scripting model

- Scripting is highly expected from developers and knowledge workers
- StarBasic is supported in Lotus Symphony
- VBA interoperability is challenging and in the Symphony future plan
- LotusScript APIs for Lotus Notes developers will be supported
Extending Lotus Symphony - features

- Plug-in based extensions
  - Plug-ins
  - Features
  - Update site
- Eclipse/Expeditor IDE
- Extensible user interface
- A set of programming elements
- Deployment
Programming elements
User Interface extensions
Deploying extensions

- To end users
  - Deploying and managing the extensions through user interface

- To business partners
  - Patched installation package
  - Server managed deployment pushes to client
Lotus Symphony extension examples

- Lotus Quickr connector plug-in
- Websphere Translation Server plug-in
- Database connection plug-in
- Exporting presentation to flash plug-in

Note: all extensions can be found from http://symphony.lotus.com/software/lotus/symphony/plugin.nsf/home
Future plan

- Support OpenOffice.org extensions
- Enhance with user-friendly Java APIs for document models
- VBA interoperability
- More customizable user interface
- Local composite application programming model
- Full Lotus Expeditor integration
- More options on extension deployment
Summary

- Lotus Symphony is the combination of OpenOffice.org and Lotus Expeditor
  - Lotus Symphony Leverages the plug-in framework from Lotus Expeditor
  - Lotus Symphony inherits and enhance the base functionality for writer, spreadsheet and presentation from OpenOffice.org

- Lotus Symphony is extensible and designed for integration
  - Lotus Symphony provides highly extensible user interface and many APIs for third party extensions
  - Lotus Symphony is easy to integrate with Eclipse/Expeditor based applications, such as Lotus Notes

- Lotus Symphony is developer friendly
  - OpenOffice.org developers can start developing directly, UNO APIs are supported
  - Eclipse/Expeditor developers can leverage their existing skills; new developers can leverage lots of articles, tutorials, books from Eclipse
  - Lotus Symphony toolkit is provided for both stand-alone Symphony and Symphony in Notes
Thanks!

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