



# OpenOffice.org & ODF eco system

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# Agenda

- ODF Roadmap
- Sun ODF Plugin for MS Office
- ODF Document Converter
- ODF Toolkit
- Growing OOo and ODF eco system



# ODF Roadmap

# Why ODF?

## Globalization Requires Standardization

*“Modern information technology has **turned the world into a village** with amazing speed. It links people and builds bridges in a way which even quite recently we would have believed impossible.*

*An **open, unhindered exchange of information** in all areas of life is of fundamental importance for today's knowledge-based society. It is an important foundation for our shared objective: a peaceful, democratic, pluralistic society. **The Open Document Format, as a completely open and ISO-standardized format, is an excellent vehicle for the free exchange of knowledge and information in the globalized age.**”*

Dr. Frank-Walter Steinmeier  
Federal Foreign Minister, Germany

# ODF is Maturing Quickly

- ODF 1.0
  - > OASIS approval in May 2005
  - > ISO approval in May 2006
- ODF 1.1
  - > Minor update
  - > Focus on accessibility
  - > OASIS approval in February 2007
- ODF 1.2
  - > Solid draft available
  - > Focus on formulas and metadata
  - > Rough estimate:
    - > approved as OASIS standard – Q1 2009
    - > approved as an ISO standard - Q4 2009



International  
Organization for  
Standardization

## ISO/IEC 26300

## OASIS

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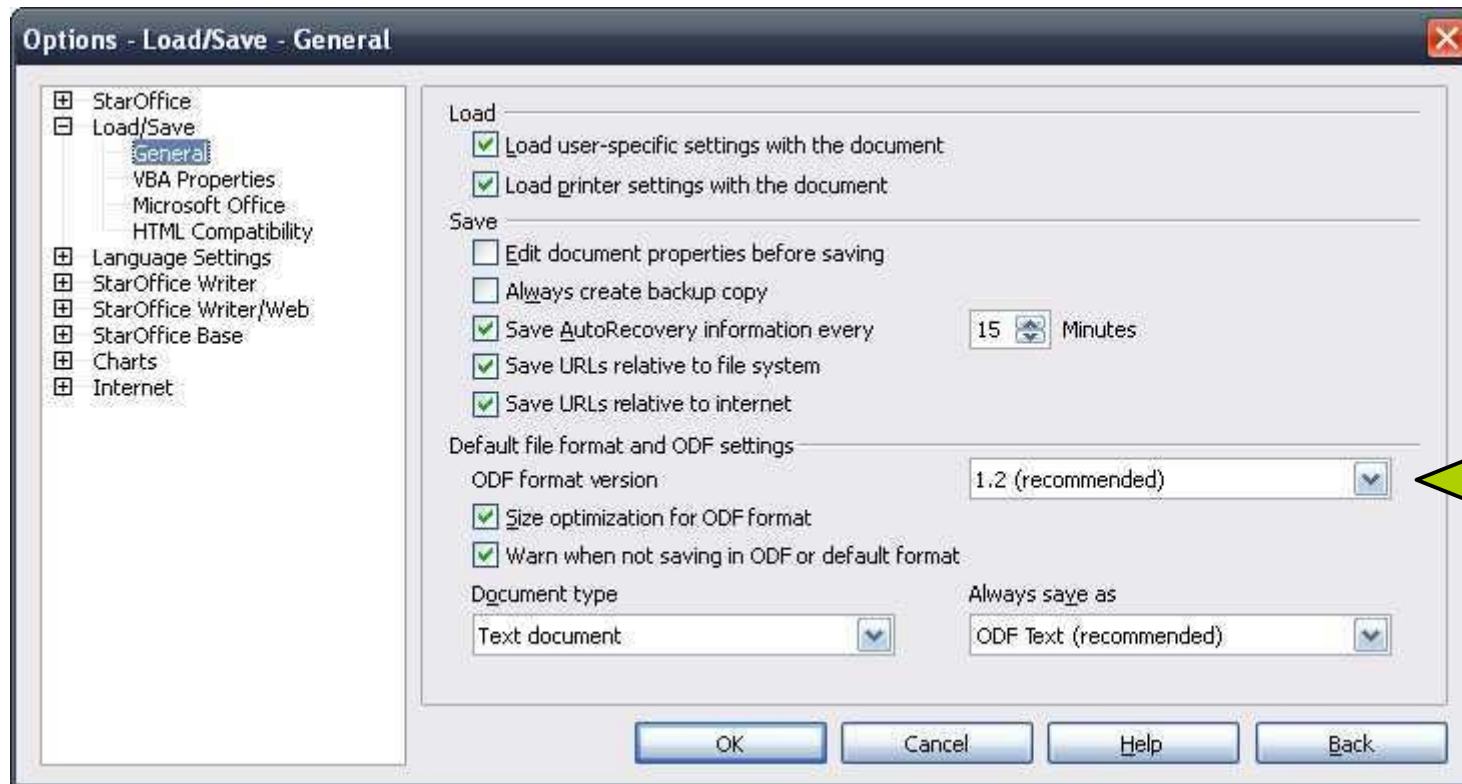
Open Document Format for Office  
Applications (OpenDocument) v1.0

# What is new in ODF 1.2?

- Spreadsheet Formulas
- Extended Metadata (Semantic/Intelligent Documents)
- Digital Signatures
- Accessibility Enhancements
- Database Frond-End Format
- Miscellaneous Features

# ODF 1.2 in OpenOffice.org (1)

- Option to save in ODF 1.2 or ODF 1.0/1.1



# ODF 1.2 in OpenOffice.org (2)

- ODF 1.2 Formulas in Calc

15	=SUM(B1:B7)		127				
16	=SUM(B1:B6:B7)	#NAME?	#NAME?		127	TRUE	
17	=SUM(B1:name_a6:B7)	#NAME?	#NAME?		127	TRUE	
18	=SUM(B1:INDIRECT("a6"):B7)	#NAME?	#NAME?				
19	=SUM(B1:name_indirect_a6:B7)	#NAME?	#NAME?				
20	=SUM(name_a1_indirect_a6:B7)	#NAME?	#NAME?				
21							
22	=SUM(B1:B7)		127				
23	=SUM(15)=SUM(B1:B7)		127				
24	=SUM(16)=SUM(B1:B6:B7)		127	TRUE		127	TRUE
25	=SUM(17)=SUM(B1:name_a6:B7)		127	TRUE		127	TRUE
26		18	=SUM(B1:INDIRECT("a6"):B7)		127	TRUE	
27	=SUM	19	=SUM(B1:name_indirect_a6:B7)		127	TRUE	
28	=SUM	20	=SUM(name_a1_indirect_a6:B7)		127	TRUE	
29	=SUM	21					
		22	=SUM(B1:B7)		127		
		23	=SUM(name_a1:name_a6:B7)		127	TRUE	
		24	=SUM(INDIRECT("a1"):INDIRECT("a6"):B7)		127	TRUE	
		25	=SUM(name_indirect_a1:name_indirect_a6:B7)		127	TRUE	
		26					
		27	=SUM(B1:B7)		127		
		28	=SUM(name_a1_a6:B7)		127	TRUE	
		29	=SUM(name_indirect_a1_indirect_a6:B7)		127	TRUE	

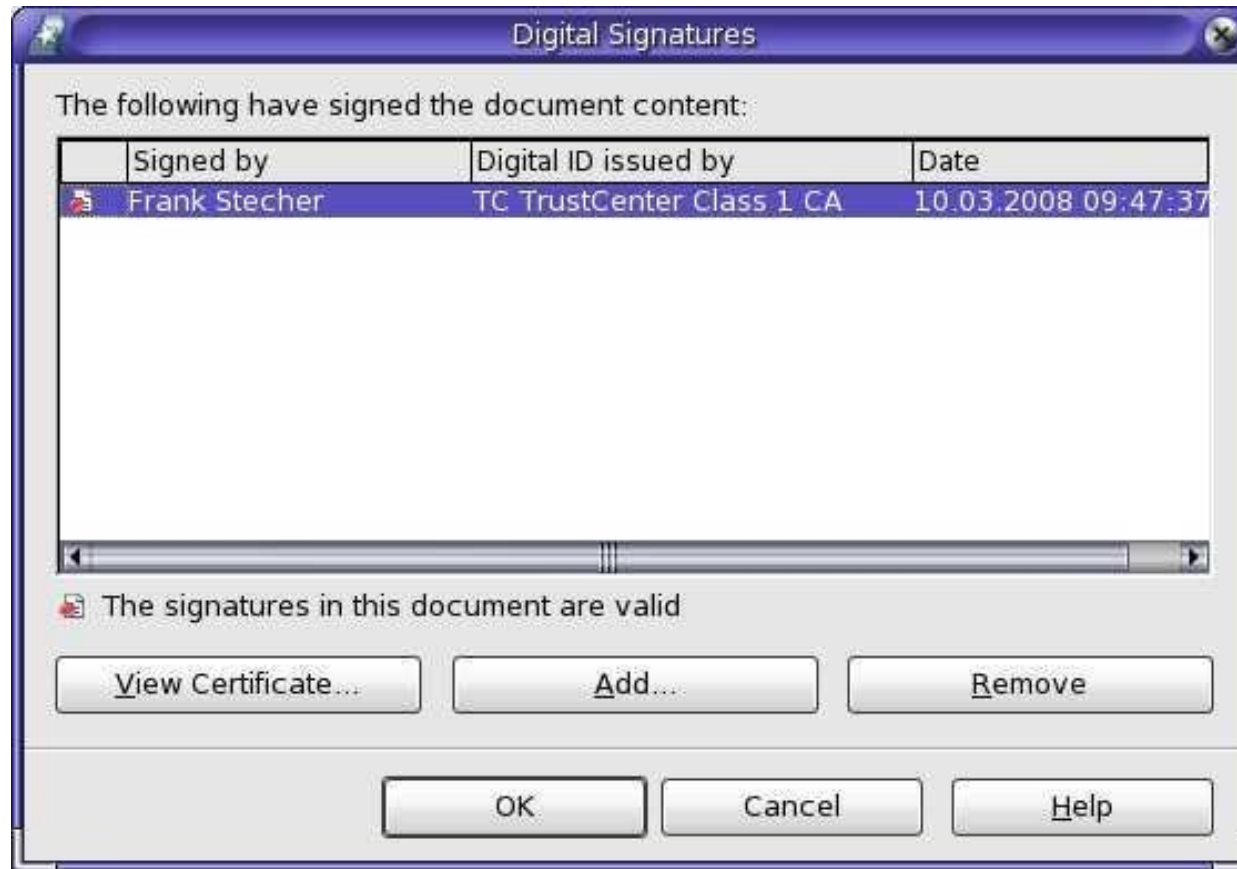
OOo 2.x

OOo 3.0



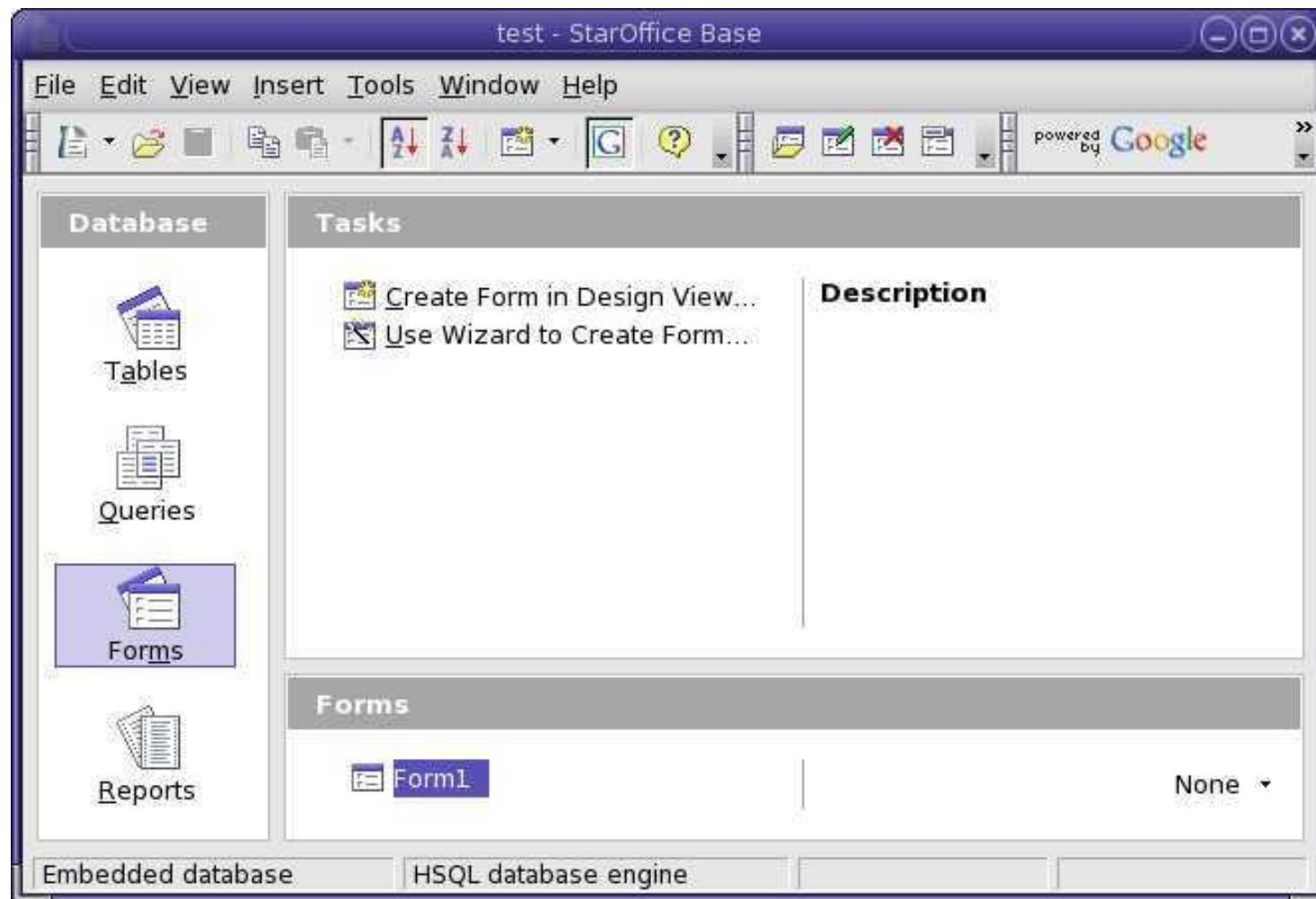
# ODF 1.2 in OpenOffice.org (3)

- Digital Signatures as defined in ODF 1.2



# ODF 1.2 in OpenOffice.org (4)

- Base uses new ODF 1.2 database front end file format



# Who Designed ODF 1.2?

## **OASIS OpenDocument Technical Committee**

Chairs:

Michael Brauer, Sun Microsystems

Rob Weir, IBM

Editor:

Patrick Durusau

Voting Membership:

~13 members from  
~7 organizations, including IBM, Sun  
and Microsoft

Total Membership:

~60 members from  
~24 organizations

## **Metadata Sub Committee**

Chair:

Patrick Durusau

## **Formula Sub Committee**

Chair:

David Wheeler

## **Accessibility Sub Committee**

Chairs:

Peter Korn, Sun Microsystems

Rich Schwerdtfeger, IBM

# How ODF moves forward within OASIS

**OASIS OpenDocument  
Technical Committee**

**Metadata Sub  
Committee**

**Formula Sub  
Committee**

**Accessibility Sub  
Committee**

**Requirements Sub  
Committee**

**OASIS ODF Adoption  
Technical Committee**

**New Sub Committee:**

Collects Requirements  
for the next  
(post 1.2) ODF version

**OASIS ODF  
Interoperability  
and Conformance  
Technical Committee**

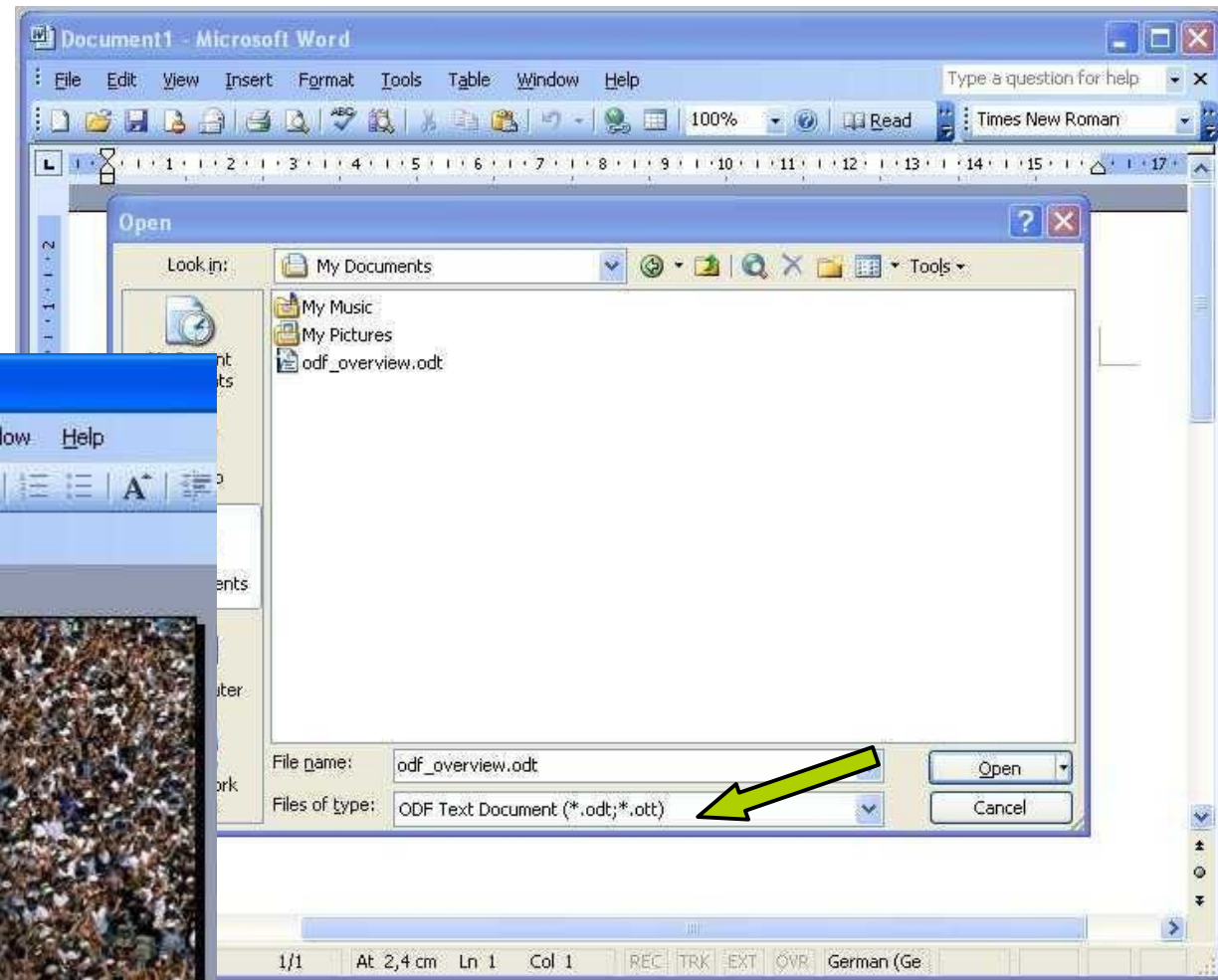
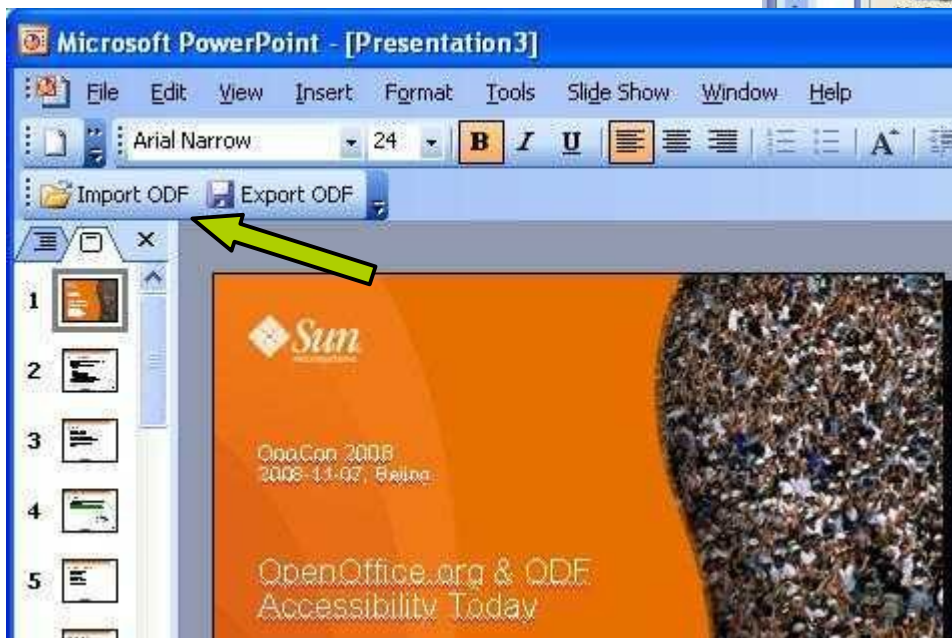
**New Technical Committee:**

- Reviews current state of conformance and interoperability among ODF implementations
- Creates conformity assessment methodology
- Creates test documents
- Creates ODF Profiles (Subsets, Combinations of ODF and other Standards)

# Sun ODF Plugin for MS Office

# Sun ODF Plugin for MS Office

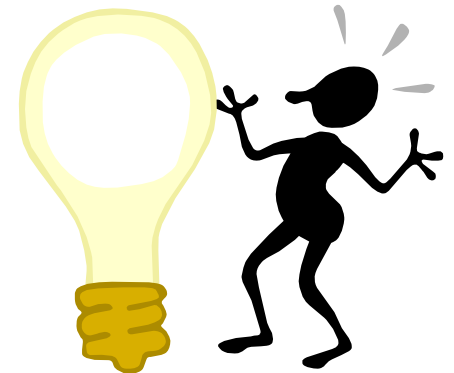
- Enables MS Office 2000/2003/XP/2007 users to read and write ODF
- Based on OOo
- Best quality due to OOo filters



# StarOffice Server ODF Document Converter

# StarOffice Server ODF Document Converter

- Use the „StarOffice 9 Server – Development Kit“ to build your own Document Converter
- Use StarOffice Server Java API for integrating OOO UNO services into own applications
- More Use Cases
  - > Document Format Conversion
    - > Example: all OOO import/export formats
  - > Server-side automated Document Creation
    - > Example: Create docs from templates and database content
  - > Document Distribution
    - > Example: Print, fax, email generated documents



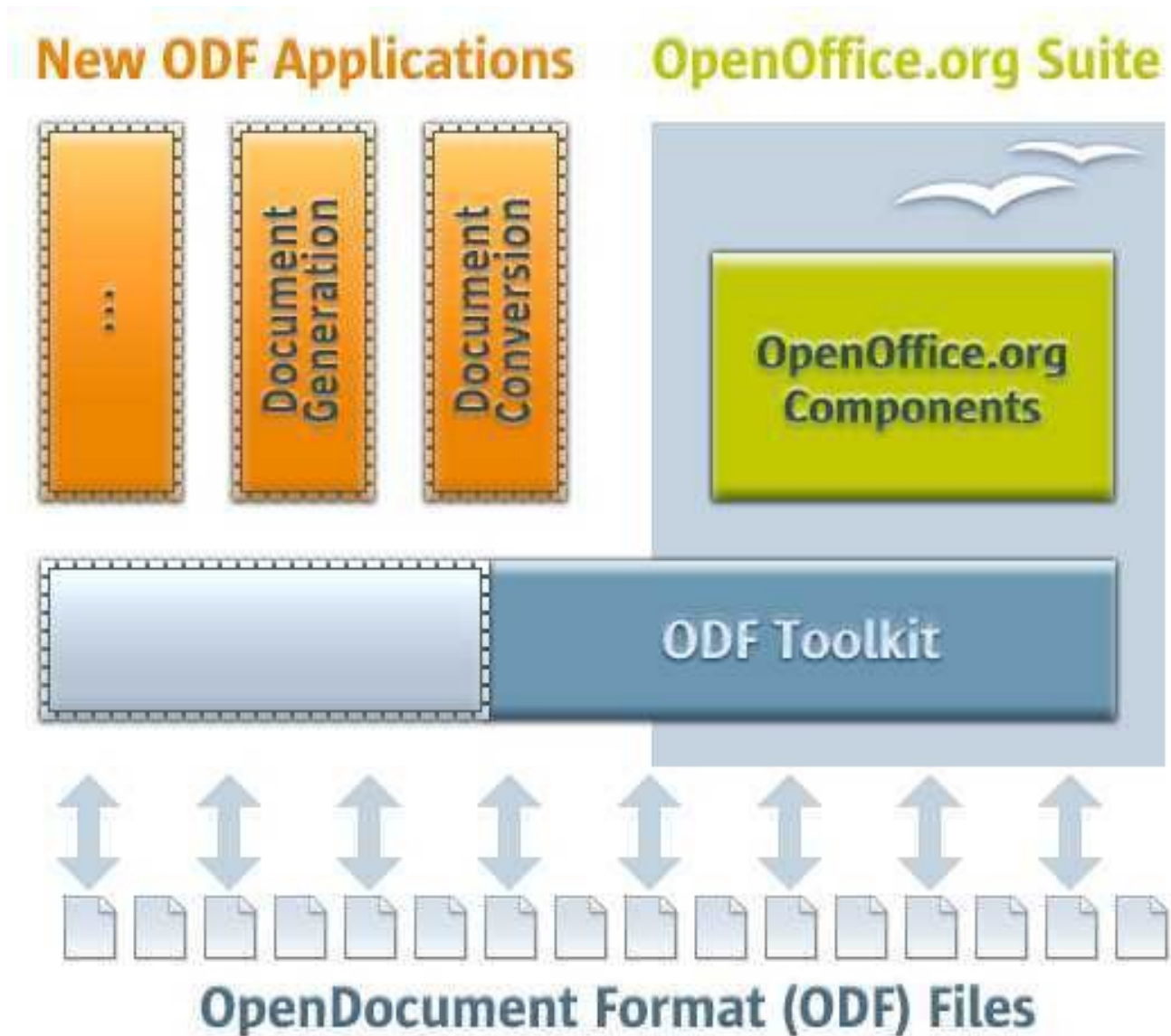


# ODF Toolkit

# ODF Toolkit Project at OOo

- Purpose: To provide a home for components that:
  - > Are ODF related, and
  - > Complement the ODF Toolkit, or
  - > Are clients of the ODF Toolkit
- Sub projects launched:
  - > AODL (.NET Module)
  - > ODFDOM (Java ODF Extension to W3C DOM)
- Modularization/Re-Packaging:
  - > Restructuring of OOo packages
    - > Separation URE (UNO Runtime Environment), OpenOffice.org core, branding

# ODF Toolkit at OOo

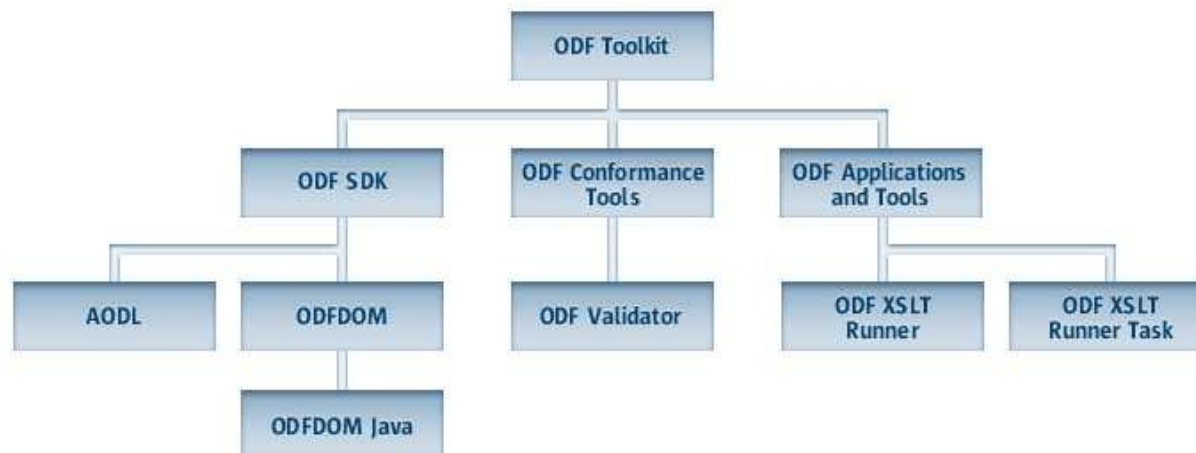


# brand new: ODF Toolkit at [odftoolkit.org](http://odftoolkit.org)

- Sun and IBM co-founded the project [odftoolkit.org](http://odftoolkit.org)
- Goal is to give the ODF Toolkit a broader scope

## WHAT IS ODF TOOLKIT

The ODF Toolkit provides a home for libraries that ease the development of applications that support ODF, the unique vendor neutral open standard for office documents. The ODF Toolkit further provides a home for tools that process ODF or check ODF conformance. The range of projects that are available in the ODF Toolkit goes from small tools that simplify using ODF in the software development process, over an ODF validation tool up to large ODF Java and .NET libraries that can be used within other projects. And this is just the start. Developers are invited to freely host their open source ODF libraries and tools within the ODF Toolkit, to join the existing projects, and to collaborate with ODF developers everywhere. The ODF Toolkit provides Mercurial for hosting your code, forums, mailing lists, wikis, an issue tracking system, and personalized home pages. More will come.



# ODF Toolkit at [odftoolkit.org](http://odftoolkit.org)

## SDK ( Software Development Kits )

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In this category you will find all informations related to existing child projects which are related to the SDK Category of the ODF Toolkit project. Until now we there are exists two SDK Projects ODFDOM and AODL. ODFDOM is written in Java and AODL is written in C#.

- ODFDOM , Java
- AODL, .NET ( C# )

## Conformance Tools

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Application and tools for validation and conformance checks of ODF documents.

- ODF Validator

## Application and Tools

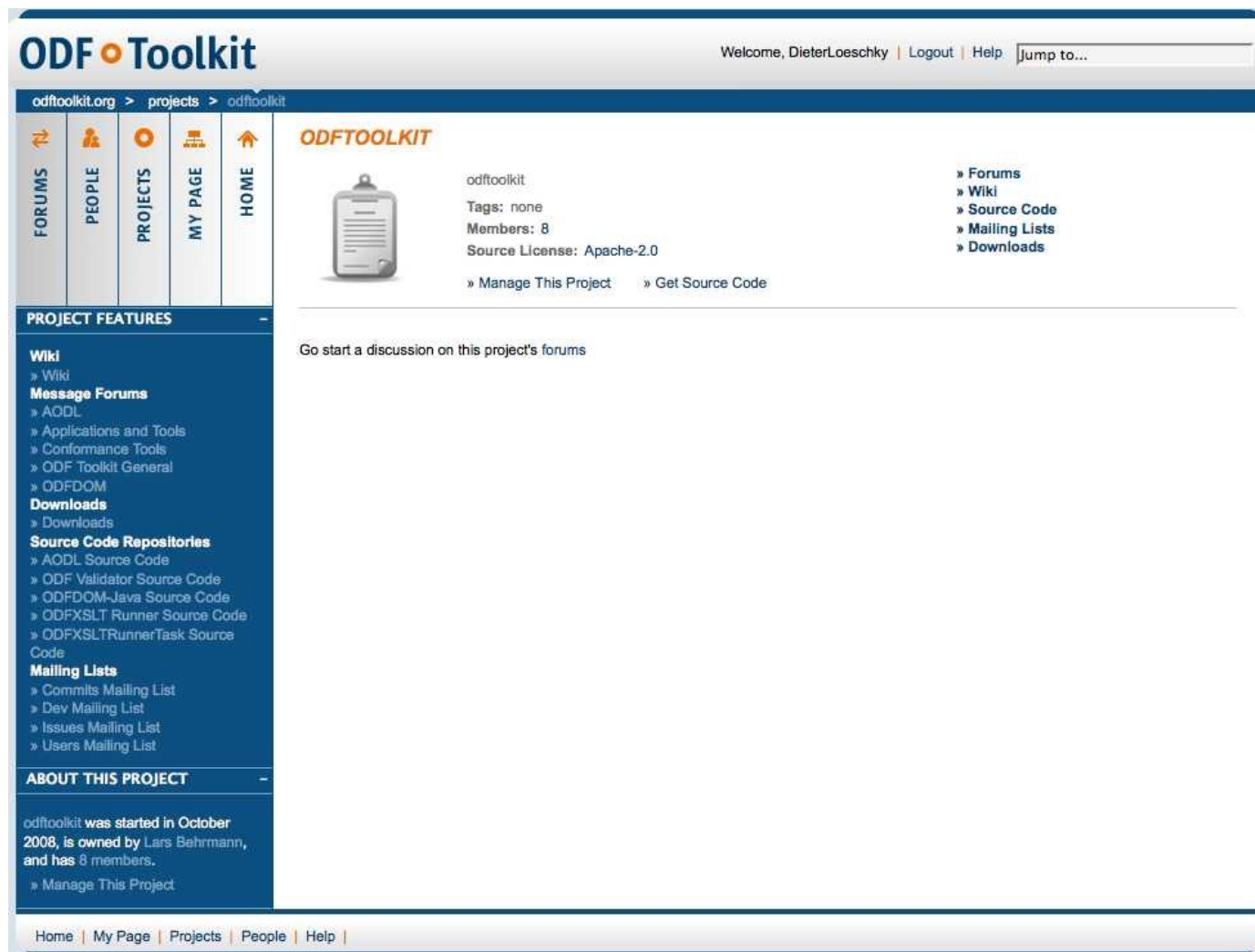
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Various tools for processing ODF documents, including tools to process ODF documents via XSLT .

- ODF XSLT Runner
- ODF XSLT Runner Task

# ODF Toolkit at [odftoolkit.org](http://odftoolkit.org)

- Give it a try!

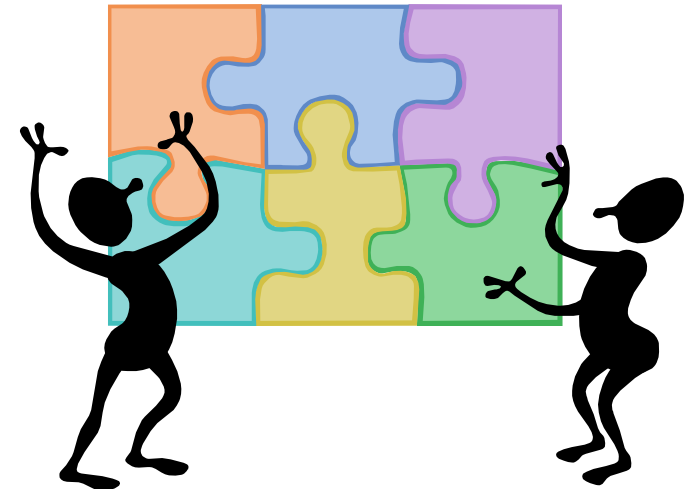


The screenshot shows the ODF Toolkit website interface. At the top, it says "ODF Toolkit" and "Welcome, DieterLoeschky | Logout | Help | Jump to...". Below this is a navigation bar with "odftoolkit.org > projects > odftoolkit". A vertical sidebar on the left contains icons for FORUMS, PEOPLE, PROJECTS, MY PAGE, and HOME. The main content area displays the project "ODFTOOLKIT" with a clipboard icon, tags (none), 8 members, and an Apache-2.0 license. It includes links for "Manage This Project" and "Get Source Code", and a list of resources: Forums, Wiki, Source Code, Mailing Lists, and Downloads. A "PROJECT FEATURES" section lists links for Wiki, Message Forums (AODL, Applications and Tools, Conformance Tools, ODF Toolkit General, ODFDOM), Downloads, Source Code Repositories (AODL Source Code, ODF Validator Source Code, ODFDOM-Java Source Code, ODFXSLT Runner Source Code, ODFXSLTRunnerTask Source Code), and Mailing Lists (Commits, Dev, Issues, Users). An "ABOUT THIS PROJECT" section states that the toolkit was started in October 2008, is owned by Lars Behrmann, and has 8 members. A footer at the bottom contains links for Home, My Page, Projects, People, and Help.

# Growing OOo and ODF eco system

# Growing OOo and ODF eco system

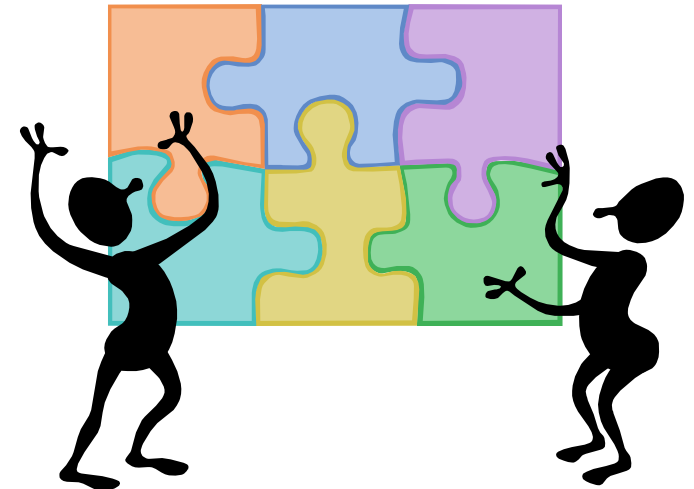
- ODF adoption in
  - > OpenOffice.org
  - > StarOffice
  - > IBM Symphony
  - > Microsoft Office (via Sun ODF plug in)
  - > KOffice
  - > Google Docs & Spreadsheet
  - > AbiWord
  - > ZOHOO Writer
  - > Textmaker 2006
  - > Apple Mac OS X Leopard
  - > ...





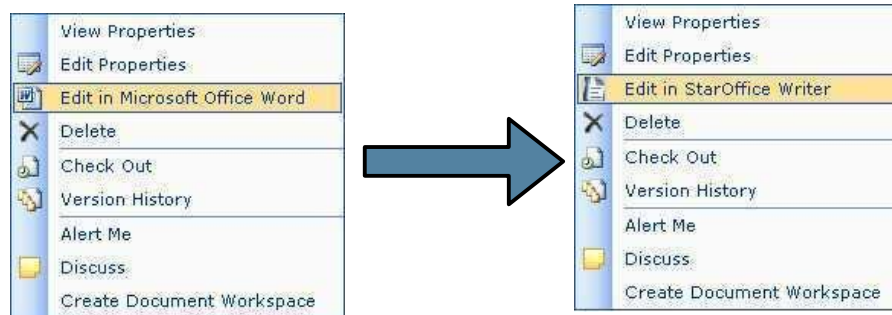
# Growing OOo and ODF eco system

- OpenOffice.org integration in
  - > MS SharePoint
  - > Alfresco
  - > SAP
  - > O3Spaces
  - > OpenText LiveLink
  - > FileNet
  - > Fabasoft Folio
  - > SugarCRM
  - > Drupal
  - > Collanos
  - > Drupal



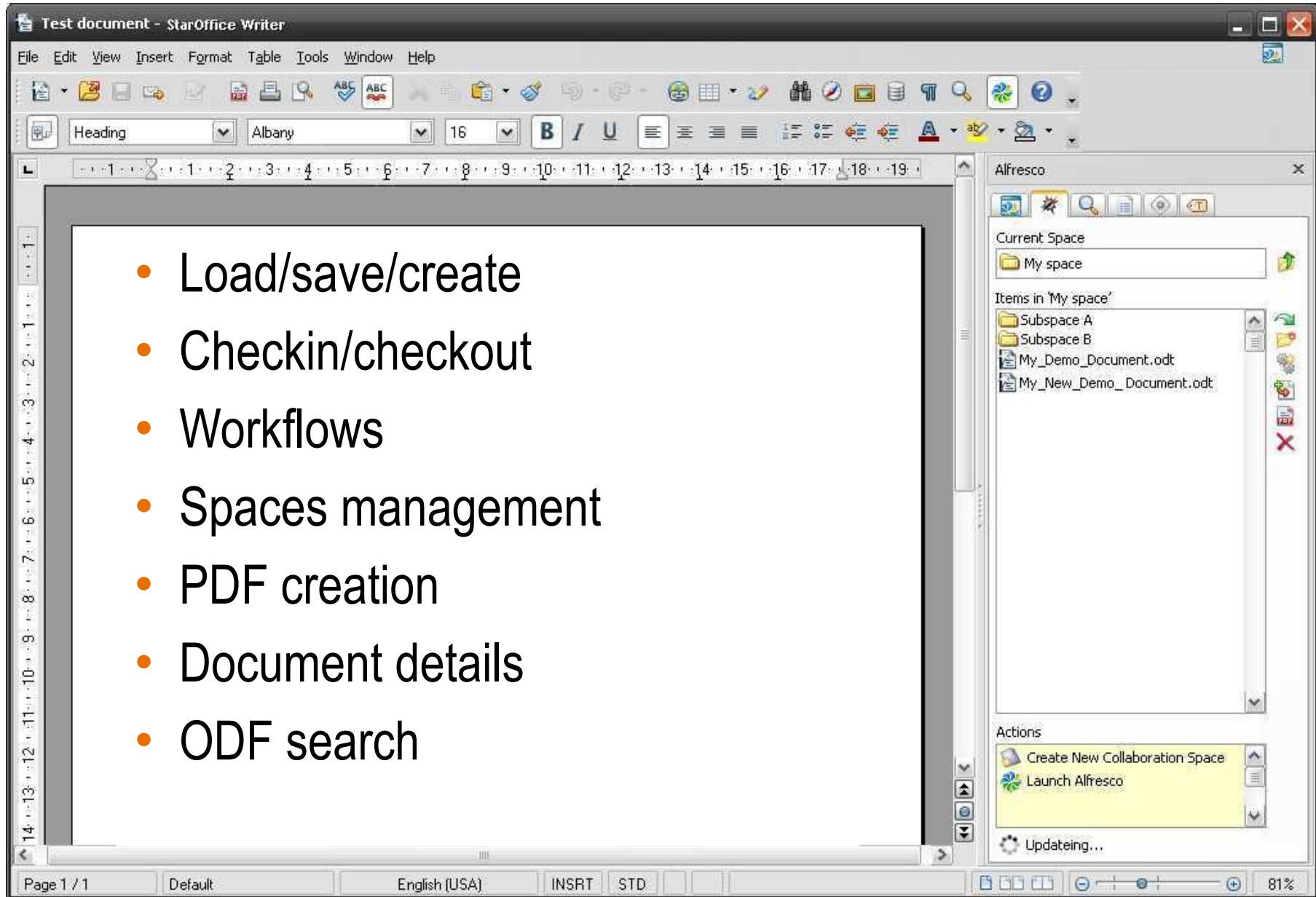
# In detail: integration in MS SharePoint

- Seamless integration into MS SharePoint Web UI
  - > Create/Open/Edit/Save documents with OOo
  - > Searching in ODF Documents using SharePoint Search



- MS SharePoint functionality in OOo
  - > Open and save documents on SharePoint's document libraries
  - > Document management (check-in, check-out, versioning)

# In detail: integration in Alfresco



The screenshot shows the StarOffice Writer application window titled "Test document - StarOffice Writer". The main document area contains a list of integration features. On the right side, there is a sidebar titled "Alfresco" which displays the current space "My space" and a list of items including "Subspace A", "Subspace B", "My\_Demo\_Document.odt", and "My\_New\_Demo\_Document.odt". The "Actions" section in the sidebar includes "Create New Collaboration Space" and "Launch Alfresco".

- Load/save/create
- Checkin/checkout
- Workflows
- Spaces management
- PDF creation
- Document details
- ODF search

# In detail: integration in SAP

- ALV Grid Export
  - > Export of any SAP ALV table to OOo
  - > Better solution as MS Excel integration due to picture export
- DIO, SAP ABAP based integration
  - > Available but in maintenance mode
- WebDynpro  
SAP GUI based integration or HTML frontend
  - > OOo runs in web browser (Java Plugin)
- Guided Procedures
  - > ODF based data entry forms workflow

# In detail: integration in SAP

The screenshot displays the SAP B20 (1) (000) interface. The main window shows a 'Test Grid' table with columns for ID, Nr, Date, Airline Company, Airfare, Curr, Plane Type, Capacity, Curr Index, Booking total, Currency, Target, and Flight Time. The data is grouped by airline company (AA, AB, AC) and includes sub-totals for each group.

An 'export - OpenOffice.org Calc' window is open, showing the same data in a spreadsheet format. The spreadsheet has columns for ID, Nr, Date, Airline Company, Airfare, Curr, Plane Type, Capacity, Curr Index, Booking total, Currency, Target, and Flight Time. The data is organized into rows, with sub-totals for each airline company.

ID	Nr	Date	Airline Company	Airfare	Curr	Plane Type	Capacity	Curr Index	Booking total	Currency	Target	Flight Time
AA	17	09.12.2000	American Airlines	5 967,41	ATS	146-200	112	77	514.639,44	DE	US JFK	1:20:00
AA	17	23.12.2000	American Airlines	4 472,10	ATS	146-200	112	58	290.507,62	US	US SFO	3:01:13
AA	17	18.08.2001	American Airlines	1 799,51	ALD	146-200	112	73	147.127,94	US	US SFO	3:01:13
AA	25	14.04.2001	American Airlines	2 104,69	ALD	146-300	128	3	7.071,76	US	US JFK	3:21:03
AA	25	12.2001	American Airlines	5 140,25	ATS							
				16.579,76	ATS							
				3.904,20	AUD							
AB	17	10.04.2001	Air Berlin	2 222,22	ATS							
AB	17	24.04.2001	Air Berlin	3 343,70	ATS							
AB	17	18.12.2001	Air Berlin	7 861,73	ALD							
AB	25	19.12.2000	Air Berlin	4 329,88	ATS							
AB	25	14.08.2001	Air Berlin	4 541,23	ALD							
				14 895,80	ATS							
				12.402,96	AUD							
AC	17	15.12.2000	Air Canada	9 274,07	ALD							
AC	17	24.08.2001	Air Canada	2 096,79	ATS							
AC	25	20.04.2001	Air Canada	4 982,72	ATS							
AC	25	14.12.2001	Air Canada	257,78	ALD							
				7.079,51	ATS							
				9.531,85	AUD							
				38.555,07	ATS							
				25.839,01	AUD							

**Microsoft stated that**  
**“ODF has clearly won”**

(Stuart McKee, National Technology Officer at Microsoft)

**That's nice but not the end of the game**

**Let's stay innovative and keep on track!**

# Your Questions



# Thanks!

凝聚全球力量 绽放开源梦想

[www.OOobeijing2008.com](http://www.OOobeijing2008.com)





# OpenOffice.org & ODF eco system

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