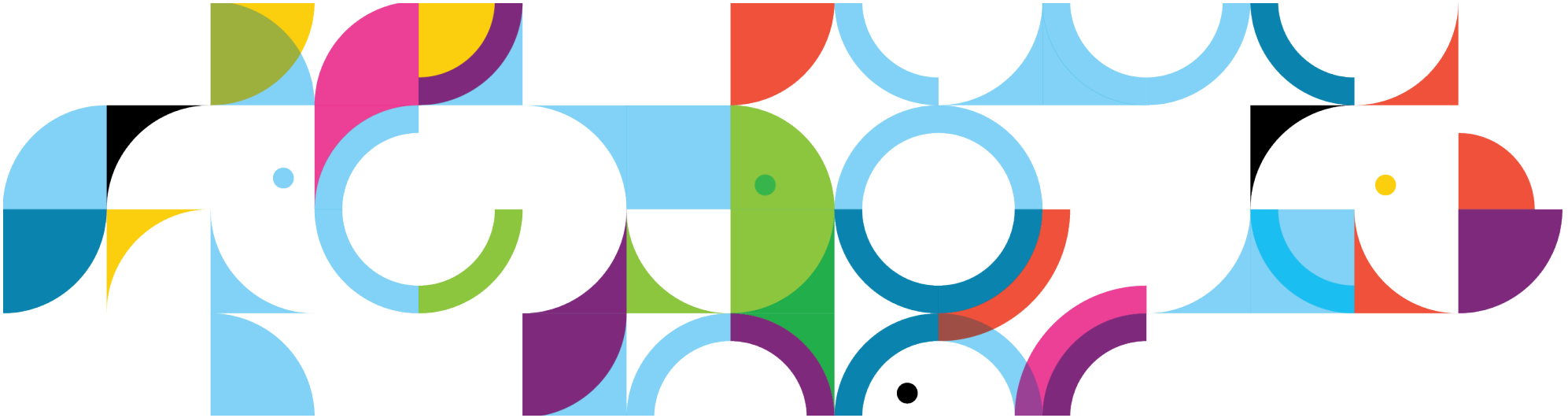
Lotus Domino XPages 8.5.3

Stefan Neth

IBM Social Business and Collaboration Solutions



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Agenda

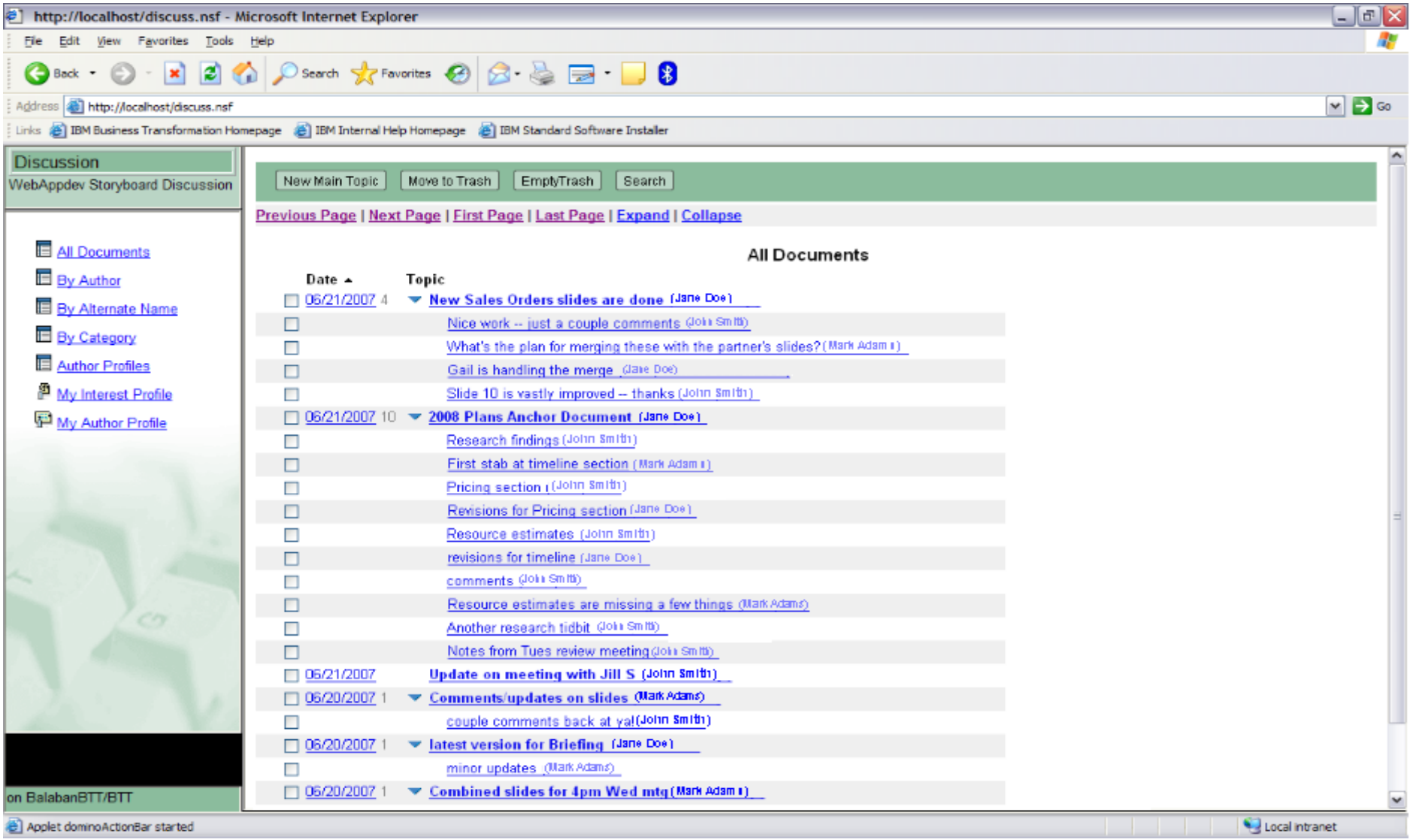
- **Ist Situation ?**
- Was sind Lotus XPages ?
- Aktuelle Beispiele für XPages Anwendungen
- Demo
- Wie können XPages Ihnen das Leben leichter machen ?
- Die XPages Community

Ist Situation

- Nutzen Sie bereits Notes und Domino Versionen ab 8.5.x.
- Wenden Sie Web Technologien mit Domino Servern und mit Notes an?
- Sind Mobile Anwendungen für Sie ein Thema ?
- Kennen Sie Innovationsstau ?
- Fehlt Ihnen der Synergie Effekte im Kollaborations-Umfeld ?
- Zahlen Sie für kostspielige Mehrfachentwicklungen für verschiedene Clients (Notes, Web, Mobile) ?

These: Kunden die XPages nutzen erkennen das Potential durch moderne Anwendungen ihre web(tt)bewerbsfähig zu steigern und Mehrwerte/Synergien im Kollaborationsumfeld zu schaffen.

Haben wir hierfür eine Lösung ?



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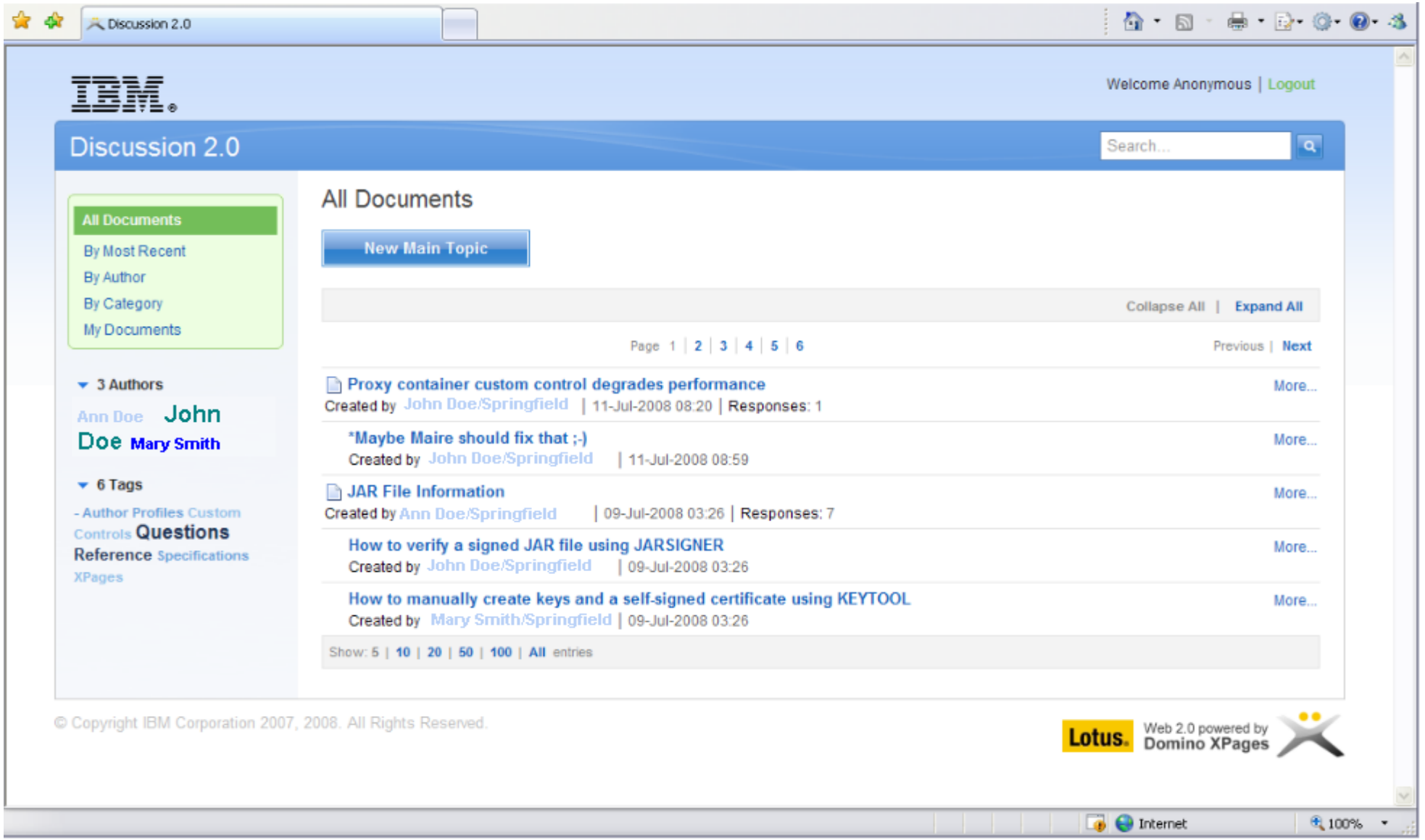
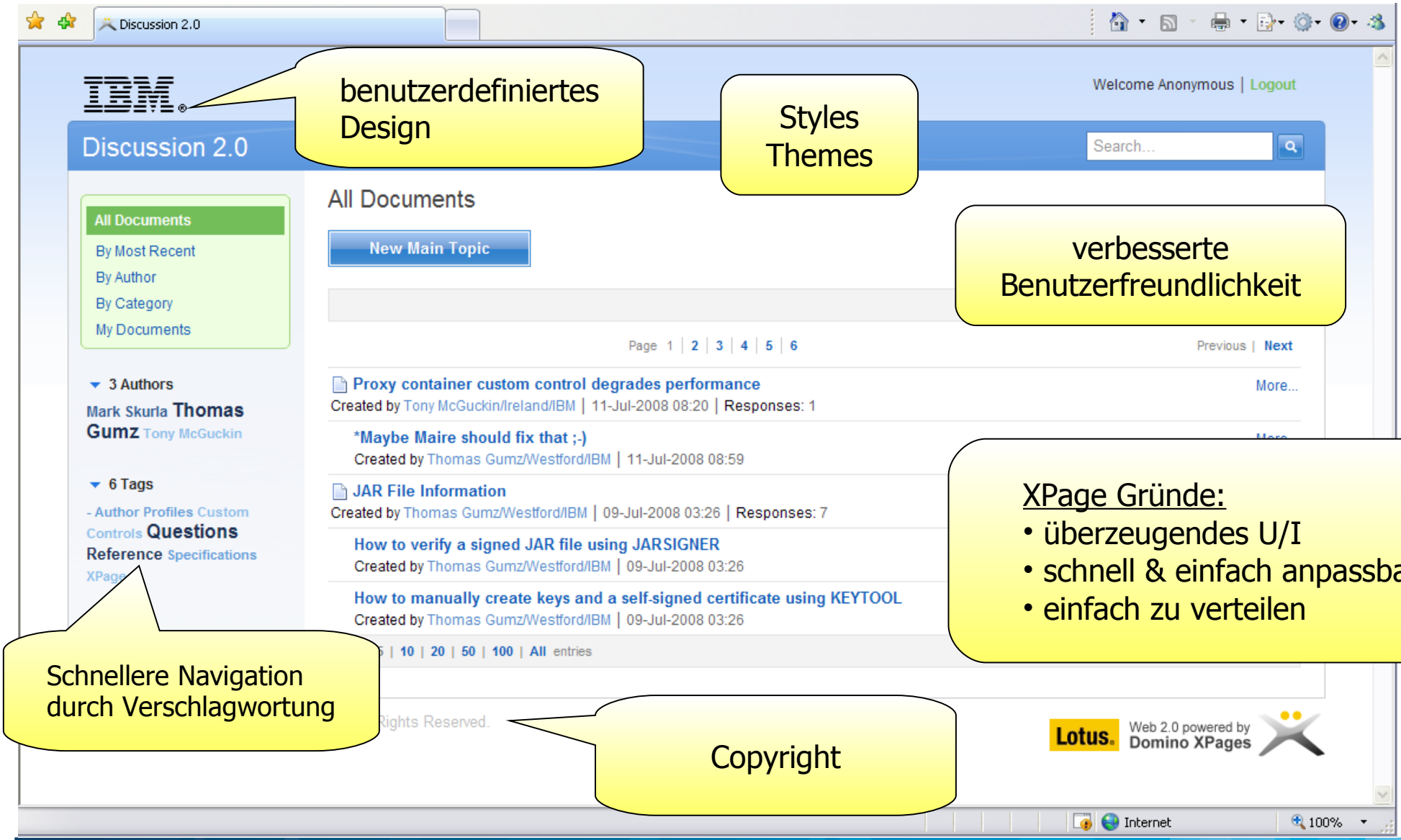
Lotus XPages ab Version 8.5



Web Anwendungen sahen nie besser aus



Lotus XPages ab Version 8.5

- Software
  - Lotus Domino ab Version 8.5
  - Lotus Notes Client ab Version 8.5.1
  - Erweiterungs API und Extension Library aber Version 8.5.2
  - Lotus Domino Designer (einfache Client Lizenz CAL)
- Know how
  - Web/Notes Entwickler
  - Web/Java script Entwickler
  - Web/Java Entwickler

Die Einarbeitungszeit für Entwickler, egal aus welcher der aufgelisteten Communities, ist überschaubar da bereits im Markt befindliche Technologien mit bewährter Notes/Domino Entwicklungsoptionen intelligent kombiniert werden.

Domino Anwendungsentwicklung ab Version 8.5

•Komplette RADD Enwicklungsumgebung für Geschäftslösungen

Domino Designer + Domino **XPages** = Maßgeschneiderte Geschäftslösungen

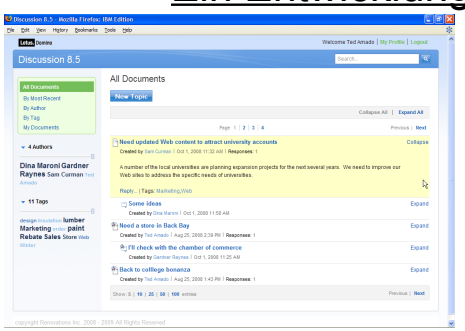
"In der Zeit in der man für C#/Java die Spezifikationen erarbeitet ...
….ist die Anwendung in Notes / Domino schon fertig"

•Domino Designer

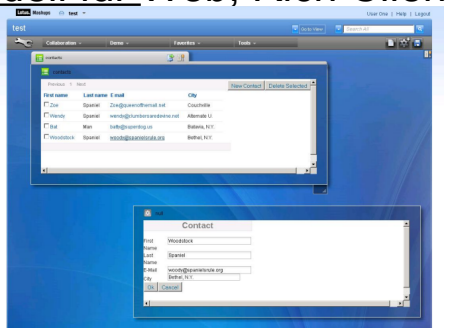
- Moderne Eclipse basierende IDE mit einem erweiterbaren Entwicklungsgerüst
- Wartung bestehender und Entwicklung neuer Anwendungen

•XPages – Web 2.0 Rahmenwerk

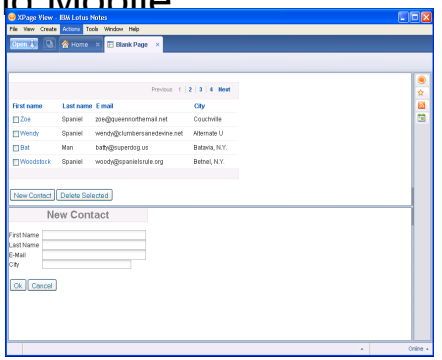
- Java Enwickler haben eine geringe Einarbeitungszeit da XPages auf JavaServer Faces basieren
- Unterstützt etablierte Web Enwicklungsmethoden (HTML, CSS & Java scrip
- Ein Entwicklungsmodell für Web, Rich Client und Mobile



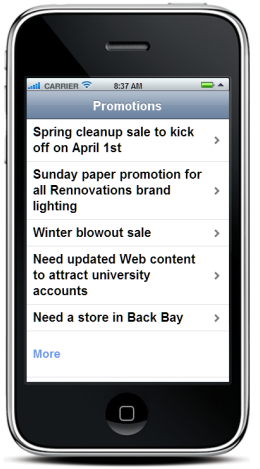
Web 2.0



Mashups



Notes Client



Mobile Devices

Weitere Vorteile

XPages Laufzeitumgebung

- Lotus Domino ab Version 8.5
- Lotus Notes Client ab Version 8.5.1 lokal und offline
- Als iWidget in Mashups und Websphere Portal und überall wo iWidgets laufen.

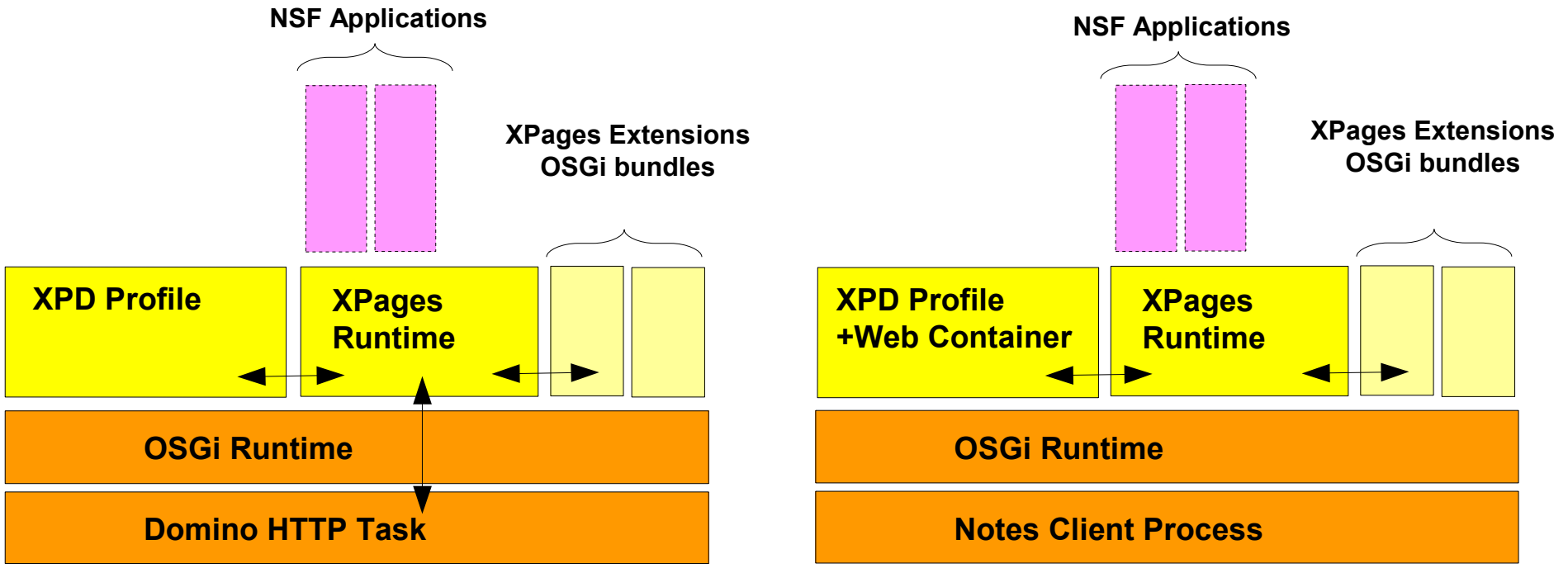
Integration im Web und auf dem Client

- Mit Portlets im Portal, Sametime, Connections, Quickr
- Verbinden Notes Datenbanken miteinander
- Datenquellen wie Datenbanken (JDBC) und verschiedene Schnittstellen (REST)

etwas mehr Technik...

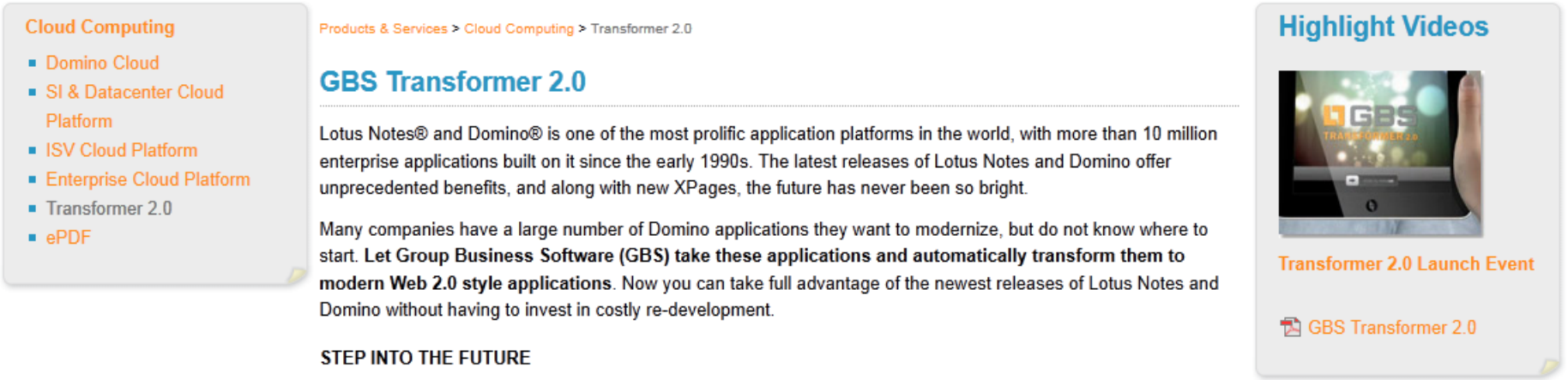
- XPages is a Java™ runtime built on top of JavaServer™ Faces 1.1 (JSF)
  - JSF has been extended in many ways to make it richer and easier to use (ajax behaviors, script languages, extended control set...)
  - JSF APIs and concepts fully apply to XPages
  - Runs on top of OSGi
  - No deployment step needed – works just like other Domino design elements
- XPages runs within a servlet engine
  - A custom servlet engine is used to run NSF based Web applications
    The NSF is seen as a deployed J2EE® Web Module
  - The Servlet API is available to the running XPages
- The Dojo Toolkit is used as the runtime JavaScript™ library
  - Used as a core JavaScript library as well as a UI widget framework
  - Tightly integrated within the XPages Runtime

XPages Architecture – 8.5.x



- Both the Domino server and the Notes client are deployed as OSGi bundles
  The same extension mechanism is used in both platforms; extensions are provided as OSGi bundles.

Automatisierte Migration von Notes Anwendungen



- Unser IBM Business Partner Group bietet ein Werkzeug zur teilautomatisierten Migration bestehender Notes Anwendung nach XPages an.
- Es besteht ein Vertrag zur Zusammenarbeit zwischen Group und den IBM Software Service für Lotus zur Nutzung des Transformers in IBM Projekten
- Details zu Tranformer unter http://www.gbs.com/en/transformer

Towards a New Development Model

The world is evolving fast and we need to adapt to the changes quickly

- The product release cycles do not match the community expectations
- We need to deliver on shorter cycles!

The XPages Extension Library proved that open sourcing the code has several benefits:

- We can release as fast as we want, and customers can adopt it at their convenience
- The availability of the source code makes it easier to consume, understand, and extend

But....

- The open source projects are not officially supported by IBM, which can be a blocker in some organizations
- The code is not certified with IBM quality standards (localization, accessibility...)

How can we reconcile the two models?

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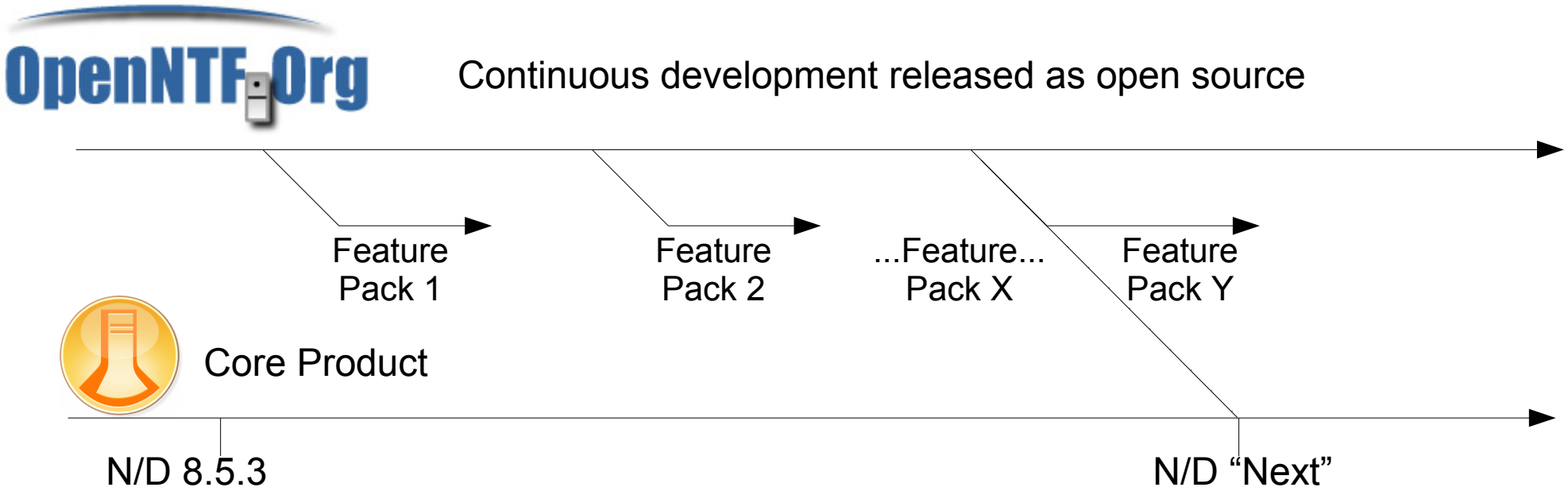
Product, Feature Packs and Open Source

- The code is first released on openNTF
  - Available early and gives full transparency on what is being done
- Pieces from openNTF are extracted and delivered as Feature Packs, supported by IBM
  - Feature packs are delivered on a shorter release cycle than products
- Feature Packs are integrated into the next revision of the product



Lotus Notes & Domino Application Development

2010

Lotus Domino Designer 8.5.2

Domino Designer
- Usability and Productivity enhancements

XPages
- Stability/performance improvements
- Improved rich text editing (CKEditor)
- Dojo 1.4.1
- Better Notes client integration

APIs
- XPage extensibility APIs
- Notes views (Java)

Cloud images for developers

2011

Lotus Domino & Designer 8.5.3

Domino Designer
- Source Control Integration
- New XPages and Forms/Views perspectives
- Update CS JavaScript editor
- New Java design element

XPages
- Stability/performance improvements
- Improved rich text editing (CKEditor)
- Dojo 1.5, CKEditor 3.5.3

APIs
- XPage extensibility APIs

Cloud images for Applications

XPages Application Server 8.5.3

Application server based on Domino and Xpages capabilities. Suitable for ISV XPages solutions
- Secure
- Low cost
- Scalable
- Available to web browsers & mobile devices

Lotus Domino & Designer Feature Pack

XPages
- XPages Extension Library
- Enhanced Mobile device support

APIs
- Domino Access Services (REST APIs)

2012

Lotus Domino & Designer Feature Pack

XPages
- XPages Extension Library
- Enhanced Mobile device support

APIs
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Lotus Domino & Designer Feature Release

Domino Designer
- Usability enhancements
- Source control enhancements

XPages
- XPages Extension Library
- Enhanced Mobile device support
- Create OpenSocial gadgets
- Leverage social services from Connections, Sametime
- Dojo & CKEditor upgrade

APIs
- Domino Access Services (REST APIs)
- iWidget /open social container

Platform
- Expande OSGi consumption and support in Domino

Cloud services for developers

2013

Lotus Domino & Designer Feature Release

Domino Designer
- Server Side JavaScript editor & debugger
- Usability enhancements

XPages
- Rich Internet Application (RIA) features
- Dojo & CKEditor upgrade
- Enhanced Mobile device support
- iWidget/OpenSocial consumption/hosting
- Integrate with Activity Streams

APIs
- Domino Access Services (REST APIs)
- Language bindings for Activity Stream APIs

Platform
- Expande OSGi consumption and support in Domino

Cloud services for developers

Project Vulcan

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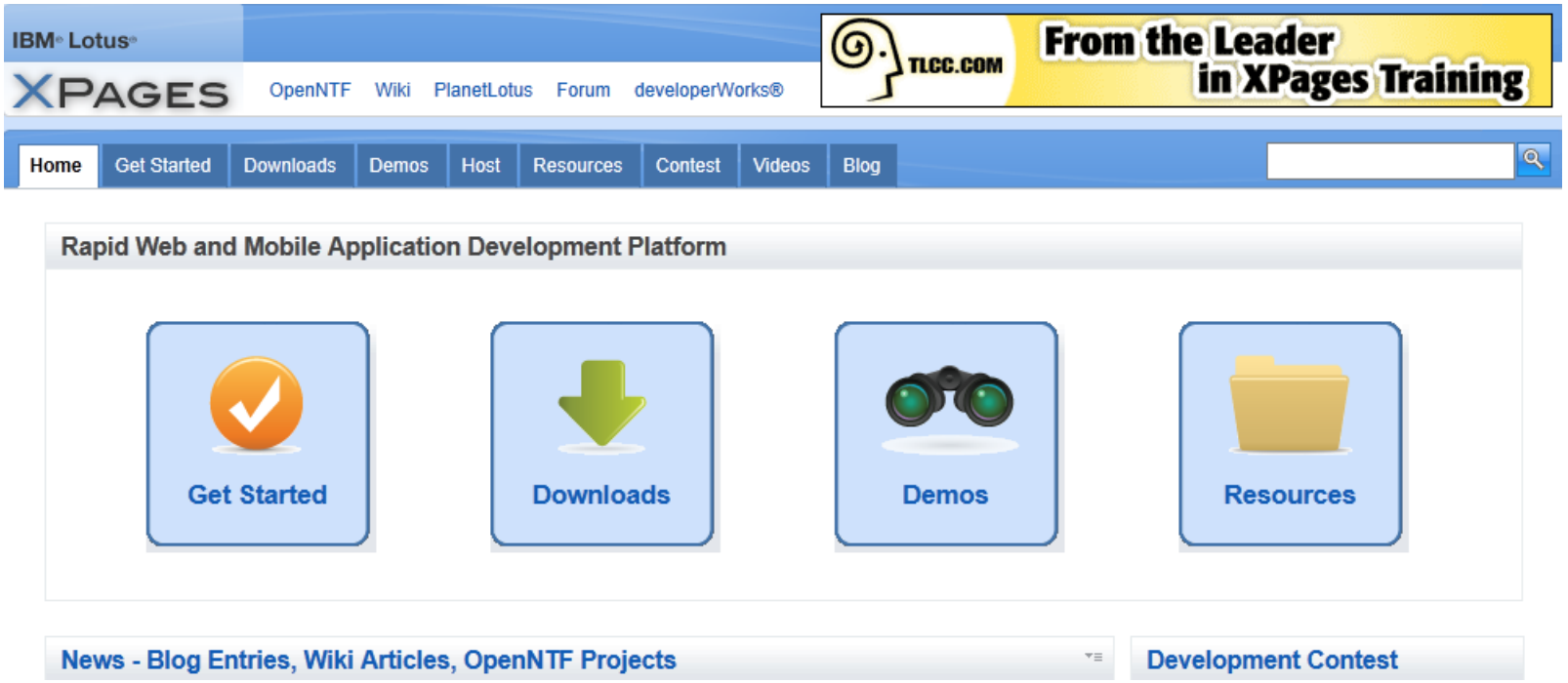
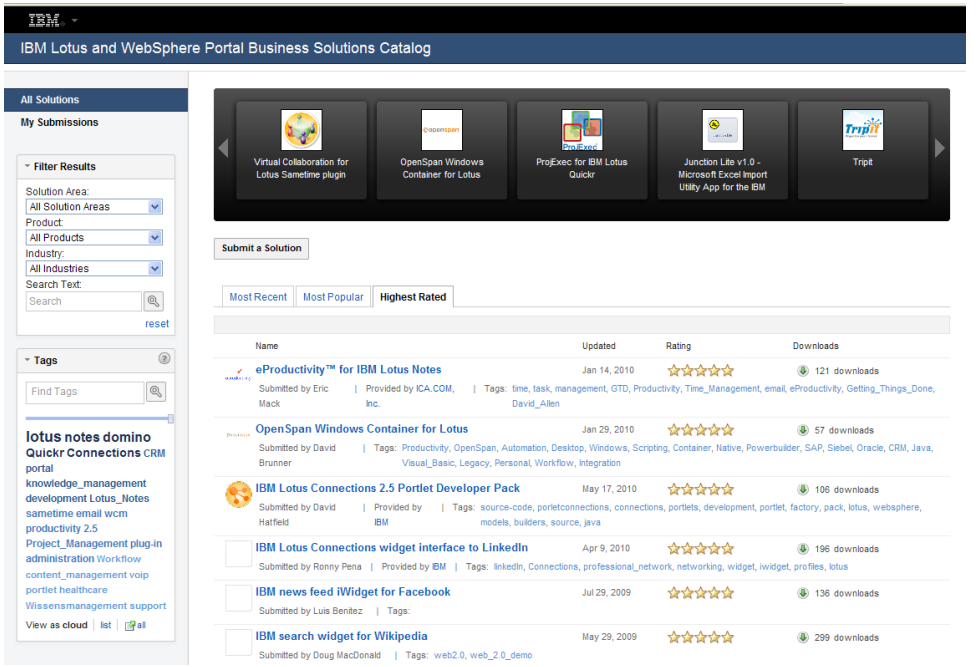
- Demo
- Wie können XPages Ihnen das Leben leichter machen ?
- Die XPages Community

Zentraler Startpunkt: XPages.info



Öffentlich zugängliche XPages Anwendungen

- developerWorks/Lotus wikis
  - http://www.ibm.com/developerworks/lotus/community/wikis.html
- OpenNTF – Home page, forums, catalog
  - http://openntf.org
  - Mobile access to OpenNTF
    - http://m.openntf.org
    - http://i.openntf.org (uses Dojo 1.5)
- IQJam
  - http://iqjam.net/
  - Elguji.com
- IBM Lotus und Websphere Portal Business Solutions Catalog
  - catalog.lotus.com



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XPages helfen Ihnen bei:

- der Integration der Daten bestehender Notes Anwendungen
  - Verknüpfung der Daten aus verschiedenen Quellen
  - Über mehrere Datenbanken hinweg
  - Offlinefähig und lokal für Außendienst
- Anwendungen einmal entwickeln und im beliebigen Kontext einsetzen
- Nahtlose Integration mit anderen Lotus Produkten
- XPages integrieren sich in bestehende Anwendungen via Wirering und iWidgets
- Einfache Umsetzung eines CI (Corporate Identity) und Mehrsprachigkeit in allen Anwendungen
- Mobile und Social Anwendungen mit geringem Mehraufwand
- Weitere Möglichkeiten:
  - Anwendung der IBM Integrationsstrategie via XPages und offene Standards
  - Quickr Toolkit, Sametime Integration
  - JDBC für relationale Datenbanken oder REST für Dateninhalte

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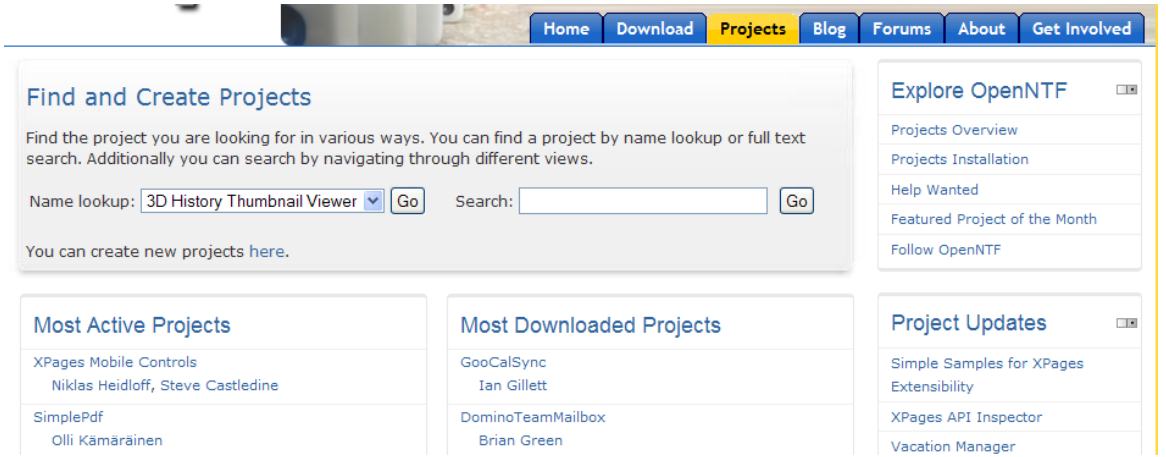
- **Die XPages Community**

openntf.org

- **Open source community für Notes/Domino Enwickler**
- **Neue XPages Oberfläche**
- **Laufend neue / aktualisierte Projekte**



Name	Contributed by
XPages Toolbox	Philippe Riand
XPages API Inspector	Tommy Valand
XPages Mobile Controls	Niklas Heidloff, Steve Castledine
XPages Fisheye Control	Shi Jia Zhang, Yong Hua Zhan, Zhi Le Yang
XPages Login	Steve Castledine, Niklas Heidloff
XPages Framework	Steve Castledine, Niklas Heidloff
XPages Control for IBM Lotus Sametime Names	Yong Hua Zhan, Zhi Lei Yang, Shi Jia Zhang
XPages Multi Attachment Custom Control	John Mackey
XPages Unit Tests	Lorcan McDonald
XPages Demo Application	Paul Hannan
XPages Mobile Controls	Niklas Heidloff, Steve Castledine

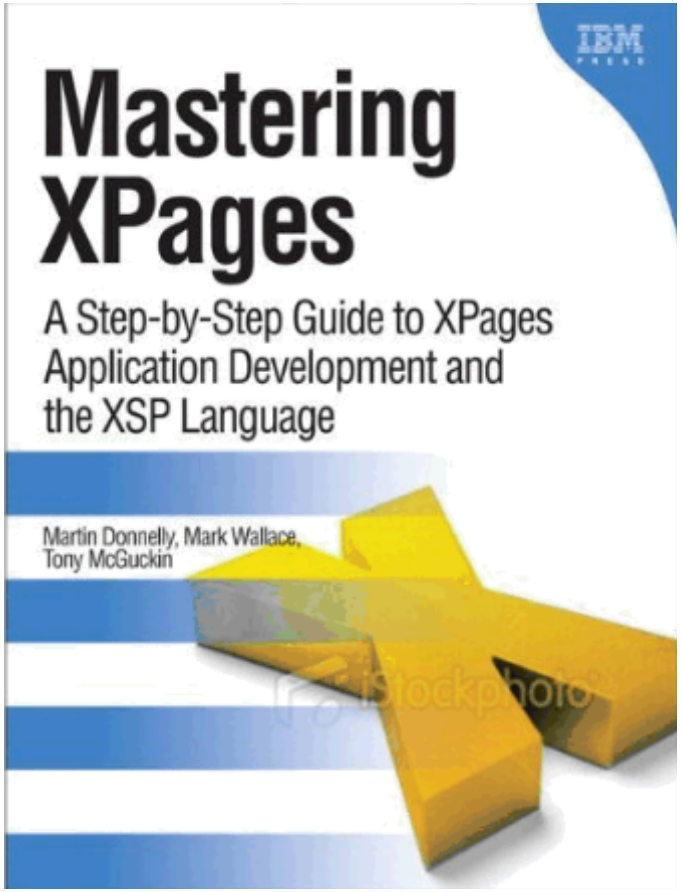
Mastering XPages

A comprehensive new book for XPages developers!!!

- 785 page volume by lead members of XPages dev team
- Covers all aspects of XPages application development
- Example-driven approach focusing on practical problems
- Includes sample NSF downloads

Available online

- www.ibmpressbooks.com/bookstore/product.asp?isbn=0132486482
- www.amazon.com/Mastering-XPages-Step-Step-Application/dp/0132486318



was wir schon immer können...

apache CouchDB relax

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  - Issue Tracking
  - Source Code
  - Committers

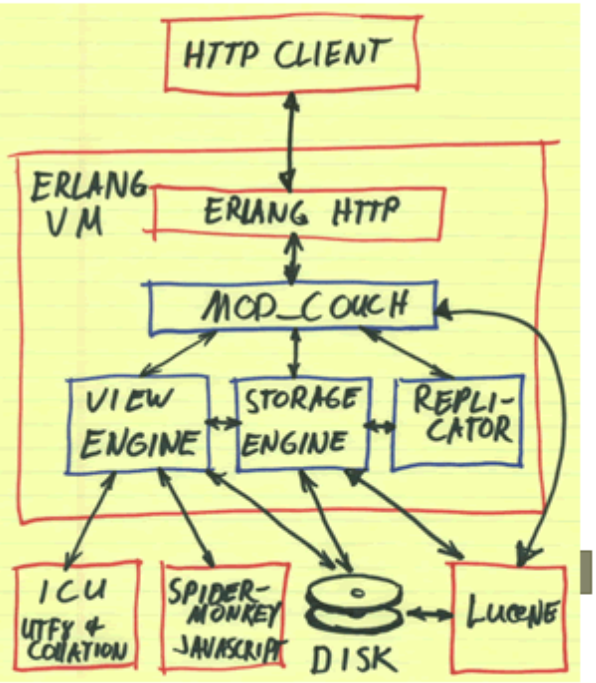
The Apache CouchDB Project

Apache CouchDB is a document-oriented database that can be queried and indexed in a MapReduce fashion using JavaScript. CouchDB also offers incremental replication with bi-directional conflict detection and resolution.

CouchDB provides a RESTful JSON API than can be accessed from any environment that allows HTTP requests. There are myriad third-party client libraries that make this even easier from your programming language of choice. CouchDB's built in Web administration console speaks directly to the database using HTTP requests issued from your browser.

CouchDB is written in Erlang, a robust functional programming language ideal for building concurrent distributed systems. Erlang allows for a flexible design that is easily scalable and readily extensible.

See the introduction and the technical overview for more information.



How to Get Started

Read the introduction and the technical overview to learn more about the design and basic concepts of CouchDB. To give it a try, download the CouchDB code from the Subversion repository and follow the included build instructions.

Enablement & Services

Ausbildung für Domino Designer / XPages

IBM Angebote

- http://www-304.ibm.com/jct03001c/services/learning/ites.wss/de/de?pageType=course_list&subChapter=12158&subChapterInd=S&subChapterName=IBM+Notes+and+Domino+8.5.x&chapter=6738&chapterName=Lotus

- http://www-304.ibm.com/jct03001c/services/learning/ites.wss/de/de?pageType=course_list&subChapter=12157&subChapterInd=S&subChapterName=IBM+Notes+and+Domino+8.5&chapter=6738&chapterName=Lotus
- Partner Angebote für Schulungen

Services für XPages

- ISSL Angebote
  - Anwendungsmodernisierung
  - XPages Entwicklung
- Zahlreiche Partnerlösungen und Services rund um XPages

Resources

Lotus Notes/Domino Application Development Wiki powered by XPages!

- www-10.lotus.com/ldd/ddwiki.nsf
- http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Whats_New_in_852_for_XPages

OpenNTF – Open source developer community

- www.openntf.org/Internal/home.nsf

Planet Lotus – Aggregation of Lotus related blogs. Lots of Domino app dev related posts.

- http://planetlotus.org/search.php?search=xpages&sort=1

XPages blog: http://xpagesblog.com/

IBM DeveloperWorks

- www.ibm.com/developerworks/lotus/

Viele weitere Blogs im Internet