



# Lotus Expeditor

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## Geschäftsmodelle gestern...

„Bisher konnten die Führungskräfte davon ausgehen, dass die Geschäftsmodelle so gut wie in Stein gemeißelt waren.

**Die Unternehmen mussten sich zwar bemühen, besser zu werden ... aber verändern mussten sie sich selten – jedenfalls nicht im Kern.“**

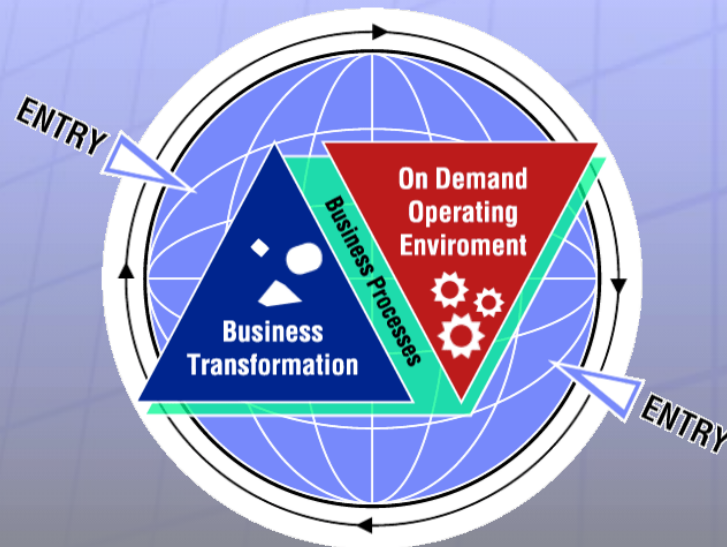
Gary Hamel und Lisa Valikangas, "The Quest for Resilience"  
Harvard Business Review, September 2003



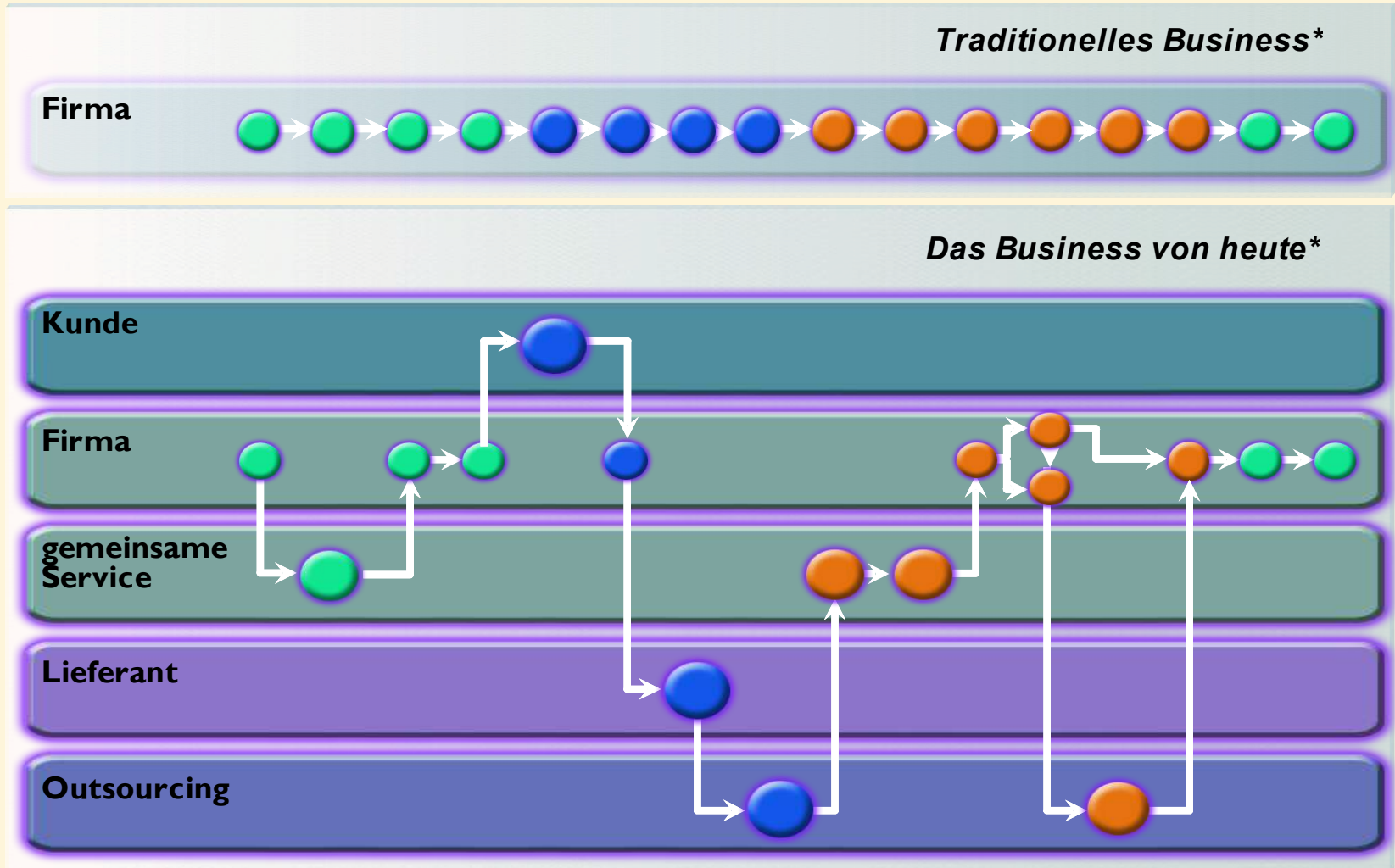
# Die Herausforderungen des Marktes erfordern die Orientierung auf ein On-Demand Business Modell

Ein On Demand business ist ein Unternehmen das seine **Geschäftsprozesse integriert end-to-end** über Unternehmensgrenzen hinweg mit seinen Geschäftspartnern, Lieferanten und Kunden organisiert hat.

Dieses Unternehmen kann schnell auf veränderte Kundenwünsche, neue Geschäftschancen oder auf äußere Bedrohungen reagieren.



# Warum Flexibilität und Dynamik im Business?



\*Quellen: CBDi

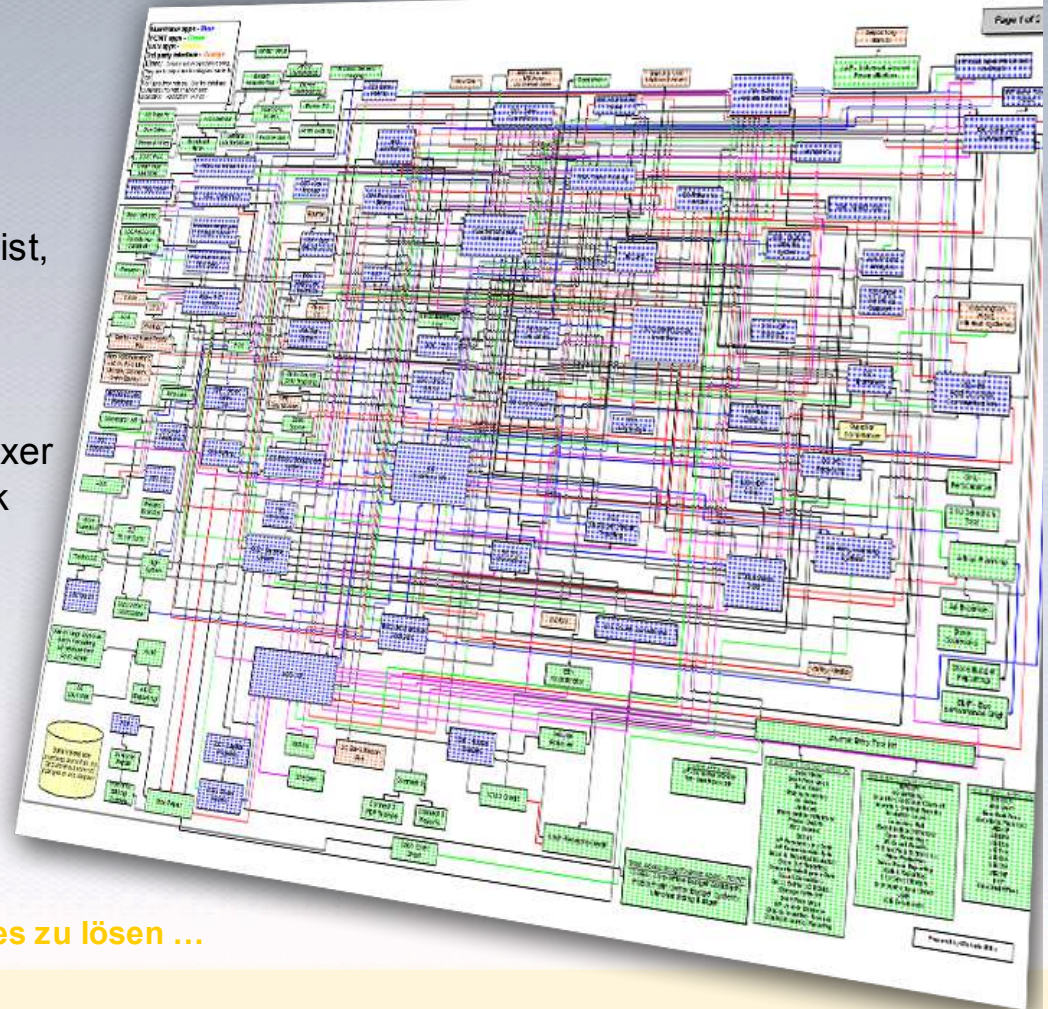




# Was hemmt Flexibilität und Dynamik im Business?

## Schnittstellen:

- Applikation-Schnittstellen-Logik ist mit Geschäftslogik verflochten.
- Um so enger die Schnittstelle integriert ist, um so schwieriger ist die Applikation zu verändern.
- Je mehr Schnittstellen in einem Programmset existieren, um so komplexer wird die Applikation – Schnittstellenlogik wird in vielen Fällen den Anteil der Geschäftslogik übersteigen.
- Unter diesen Umständen wird eine Wiederverwendung schwierig und unmöglich.



SOA ist die Methodik und Architektur, um dies zu lösen ...

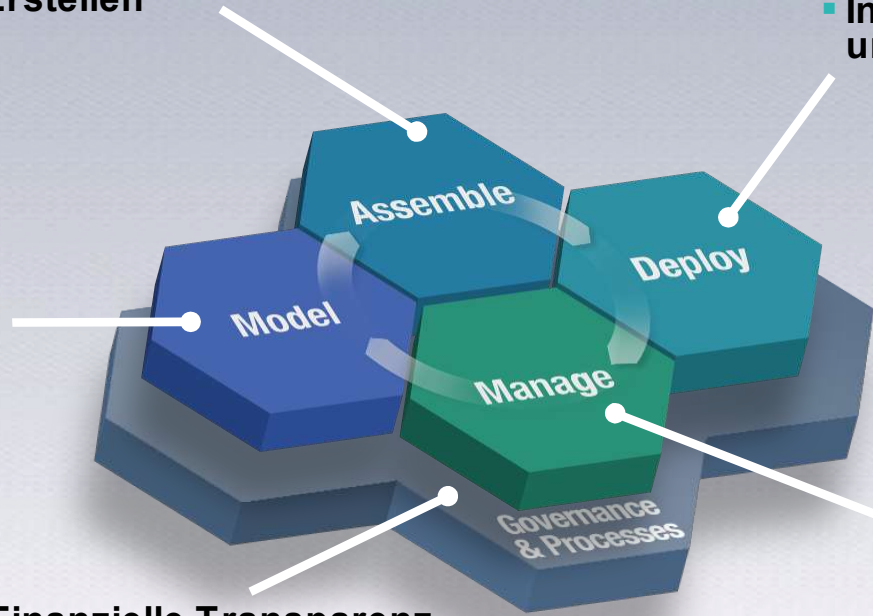
# SOA-Lebenszyklus

Wie stellen Kunden sich eine flexible IT-Infrastruktur durch SOA technisch vor?

- Erkennen
- Aufbauen und Testen
- Erstellen

- Personen integrieren
- Prozesse integrieren
- Informationen verwalten und integrieren

- Anforderungen zusammenstellen
- Modellieren und Simulieren
- Entwerfen



- Finanzielle Transparenz
- Ausrichtung Business / IT-Infrastruktur
- Prozess-Steuerung

- Anwendungen und Services verwalten
- Identität und Konformität verwalten
- Geschäftsdaten überwachen



# Die IBM SOA Foundation

**Modularer Ansatz**  
für eine SOA-Lösung

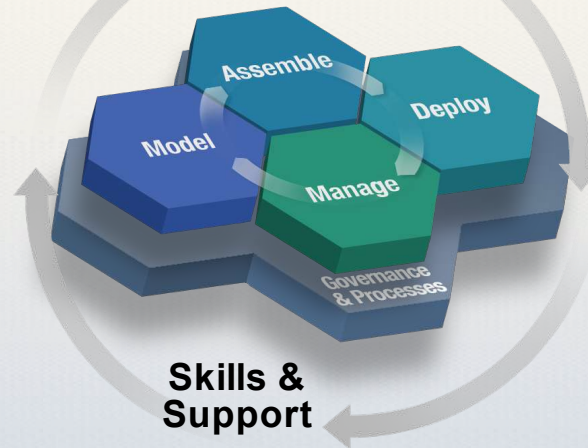
Baut auf den  
existierenden  
Systemen auf

**Skalierbare**  
Lösung zum  
Aufbau einer SOA

Unterstützung der  
gängigen IT  
**Standards**

**IBM SOA Foundation**

**Software**



**Skills & Support**

**Existierende IT Infrastruktur**

Oracle

SAP

BEA



Microsoft

CA

Custom  
Apps.

CICS

WebSphere

IMS



# “Arbeitsplatz” – Grundidee

Integration von Personen, Anwendungen, Informationen, Prozessen

Ein Arbeitsplatz ist ein integriertes Modell, das die tägliche Arbeit von Menschen reflektiert

- Alle Dinge, mit denen sie arbeiten
- Plus Dinge an denen sie arbeiten
- Plus Kollegen mit denen sie zusammenarbeiten



## Dokumente

- Dokumentenmanagement
- Produktivitätstools
- Favoriten, Abonnement
- Werkzeuge
- Ordner & Kategorien
- Suche



## Kommunikation

- Mail
- Kalender
- Instant-Messaging
- Chat
- Application Sharing
- Meetings
- Webkonferenzen
- Teamwork
- E-Learning



## Prozesse & Geschäftsanwendungen

- To-do Listen und Aktivitäten
- Formulare
- Genehmigungen, Senden, Prüfen
- Geschäftsprozesse
- CRM



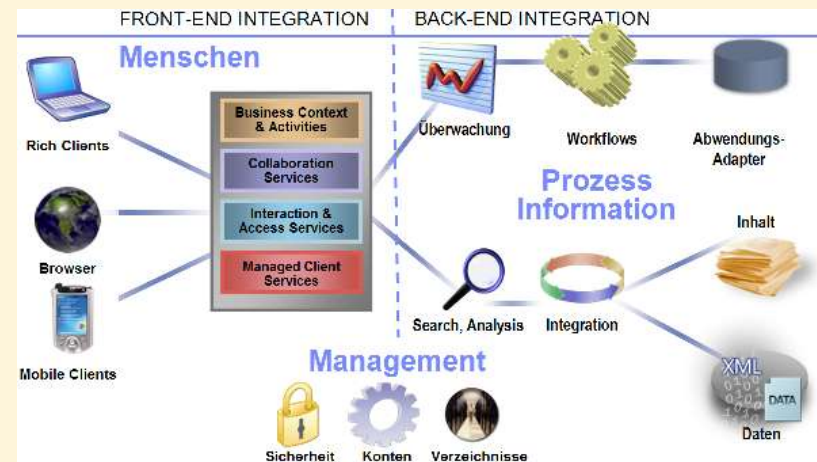
**Personalisierter, rollenbasierter Arbeitsplatz**

Jede Person hat eine unterschiedliche „Arbeitsrolle“



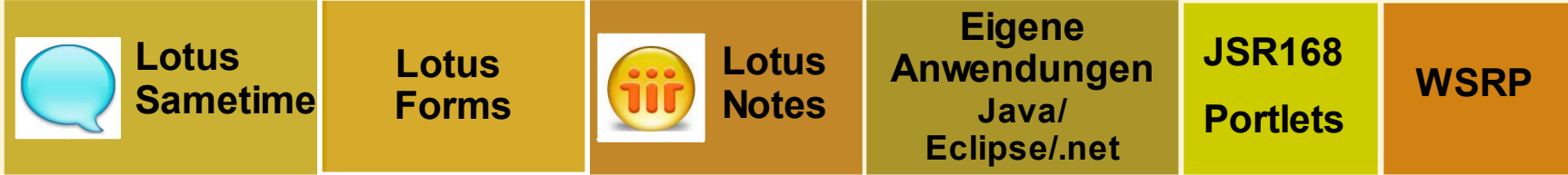
# Anforderungen an eine Client-Infrastruktur

- Unterstützung von verschiedenen Client-Plattformen  
(Desktop's, Laptop's, Kiosk's, PDA's, Smartphones usw.)
- Multiplattform Support  
(Linux, Windows, Devices, ...)
- Laufzeitumgebung für Anwendungen
- Offene Standards und Wiederverwendbarkeit
- Modularer Anwendungsaufbau (composite applications)
- Lokale Ausführung von Anwendungen
- Synchronisation von Daten
- Serververwaltung (Server-Managed-Client)
- Kostenreduzierung durch Softwareverteilung / Wartung  
(Provisioning von Anwendungen)
- Anpassung / Personalisierung des UI
- Security und Single Sign on
- Erweiterbare Plug-in Architektur



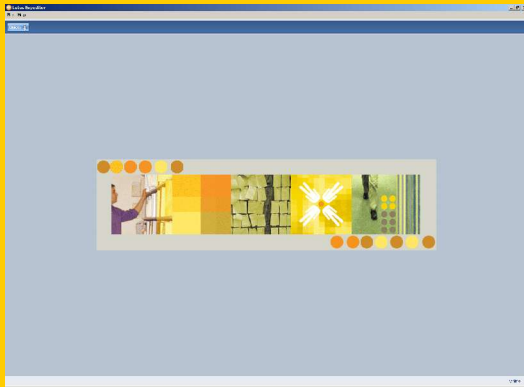
# Produktarchitektur

(Rich)  
Plug-ins



## Lotus Expeditor

Runtime Plattform



IBM Add On's

Eclipse



# Lotus Expeditor

## Client Platform for Portal, Forms, Sametime, Notes 8, WebSphere

### WebSphere Portal

Single access point for content and applications

- Local Portlet for use offline / mobile
- Compelling / responsive local U/I

Composite desktop applications

### IBM Lotus Forms

Forms based computing to accelerate business

- Forms integrated into composite desktop
- Offline forms access

Electronic forms solution for people on the move

### Lotus Sametime

Platform for real time business

- Links SOA to Sametime
- Sametime / Offline

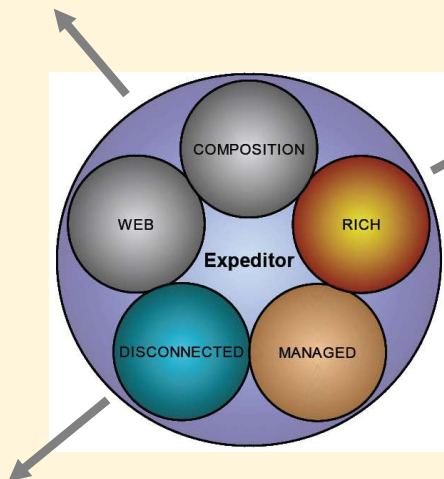
Messaging in composite applications

### Notes 8

Taking Collaboration to a new level

- Composite Desktop Applications
- Links people to process

Extends SOA to Notes



In Sametime and Notes  
Expeditor works under the covers

### WebSphere Application Server

Software for an on Demand business

- Extending applications beyond the Data Center
- Symmetric programming model

An open alternative to .NET

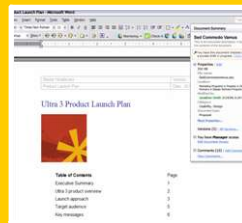


# Mitarbeiter benötigen Kommunikations- und Collaboration-Funktionen

– einfach in der Bedienung und flexibel integriert

**Email /  
Kalender/  
Anwendungen**

**Office  
Editoren**



**Lotus Notes**

**UC<sup>2</sup>/ Instant  
Messaging /  
WebConferencing**



**Sametime**

**Elektr.  
Formulare**



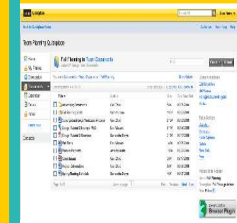
**Forms**

**Business  
Information /  
Reporting**



**ActiveInsight**

**TeamSpaces /  
Dokumenten-  
Austausch**



**Lotus Quickr**

**Wikis /  
Team-Blogs**



**Communities**

**Blogs**

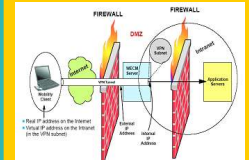
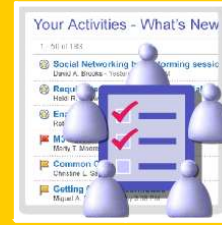
**Feeds**

**Bookmark  
Sharing**

**Vorgänge  
(Activities)**

**Gelbe Seiten**

**Sicherer Zugang  
zum Intranet**



**Lotus Connections**

**Lotus Mobile  
Connect**



# Integration von Web 2.0-Funktionen in Sametime

## Bookmarks



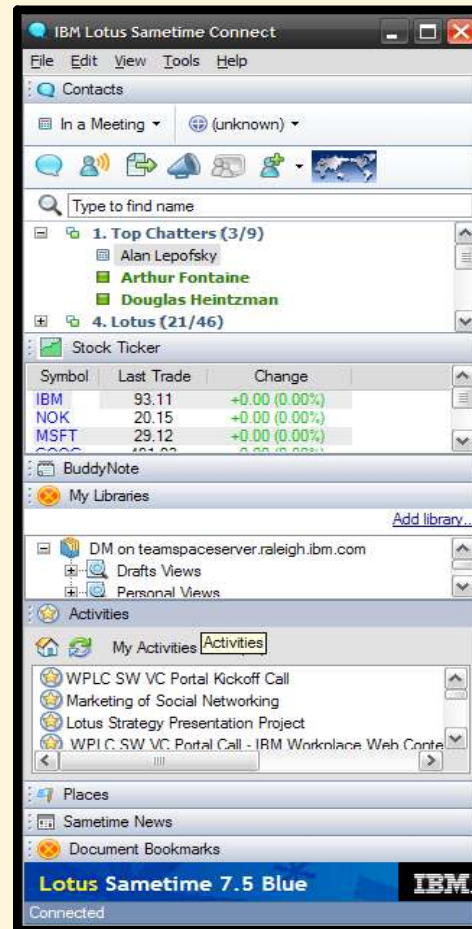
## Gelbe Seiten



## Communities



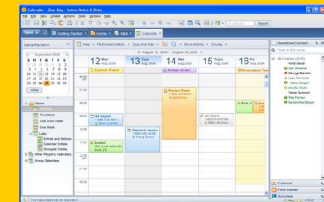
## Instant messaging



## Blogs



## Kalender



## Vorgänge (Activities)



# Integration von Web 2.0-Funktionen in Notes /Domino

## Bookmarks



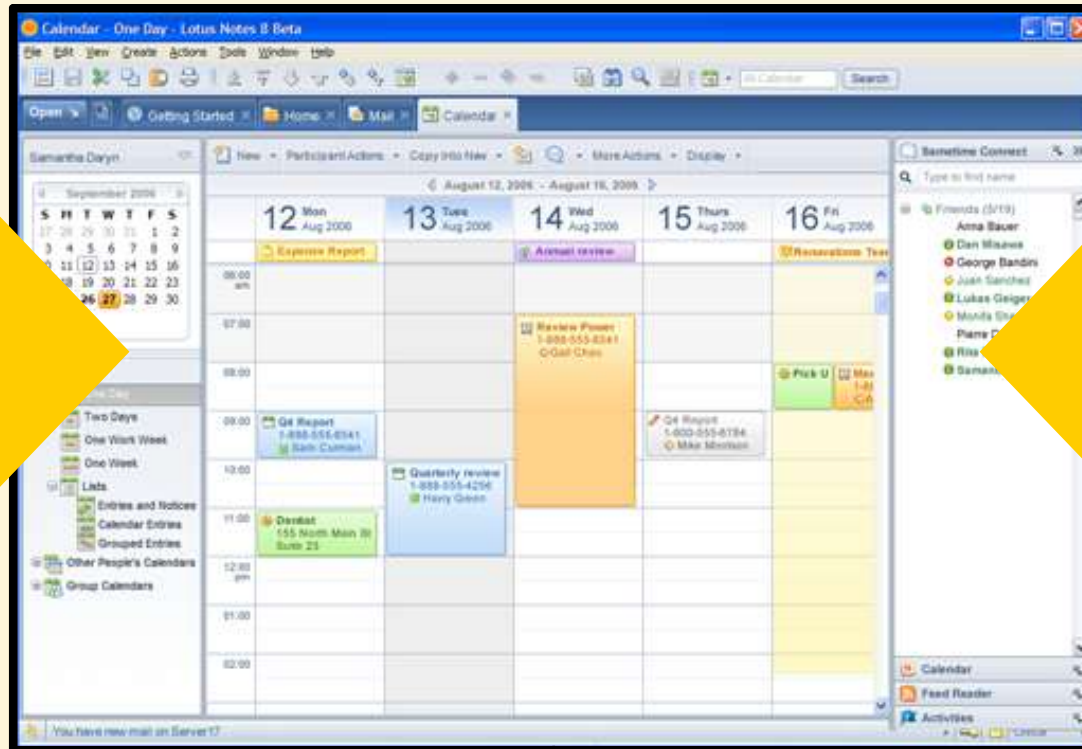
## Gelbe Seiten



## Communities



## E-mail / Kalender / Anwendungen



## Blogs



## Instant messaging



## Activities



# Integration von Web 2.0-Funktionen ins Portal

## Bookmarks



## Gelbe Seiten



## Communities



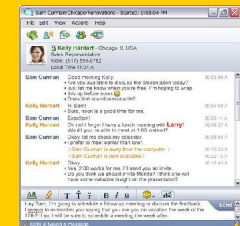
## Web-basierte Portale



## Blogs



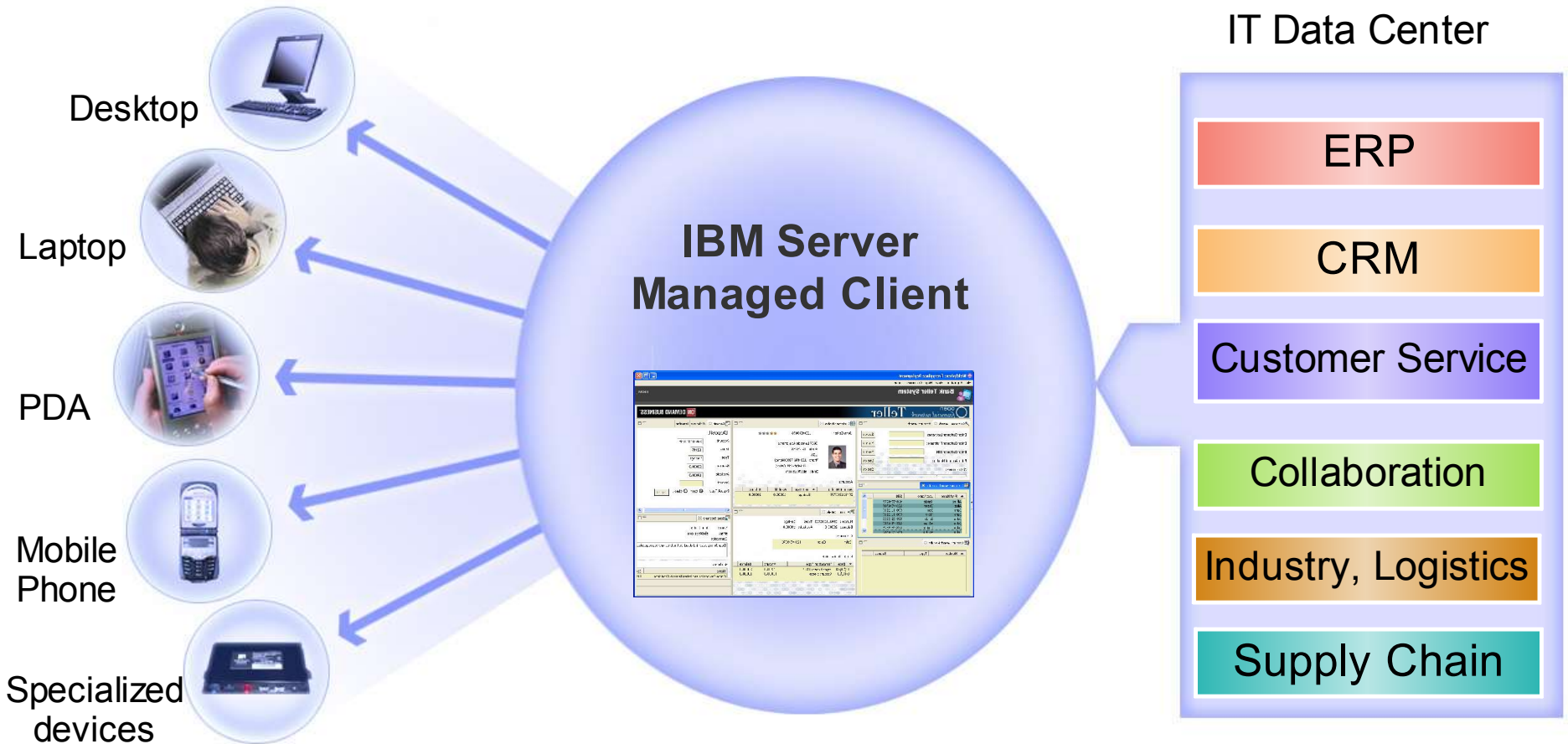
## Instant Messaging



## Vorgänge (Activities)



# IBM's Server Managed Client Solution



## Anwendungstypen im Expeditor-Client

- Webanwendungen
- Anwendungen, die Embedded Transactions nutzen
- Eclipse Rich Client Platform-Anwendungen
- Datenbank-Anwendungen
- Messaging-Anwendungen
- Web Services-Anwendungen
- Portlet-Anwendungen
- Composite Applications
- eRCP-Anwendungen (für Devices)
- Web Services-Anwendungen

Publisher

Consumer



# Lotus Expeditor

## Server *Produkte*

Lotus Expeditor Enterprise Edition  
 Lotus Expeditor Starter Edition

## Client:

Lotus Expeditor Client for Desktop  
 Lotus Expeditor Client for Devices  
 Device Runtime Environment

## Toolkit:

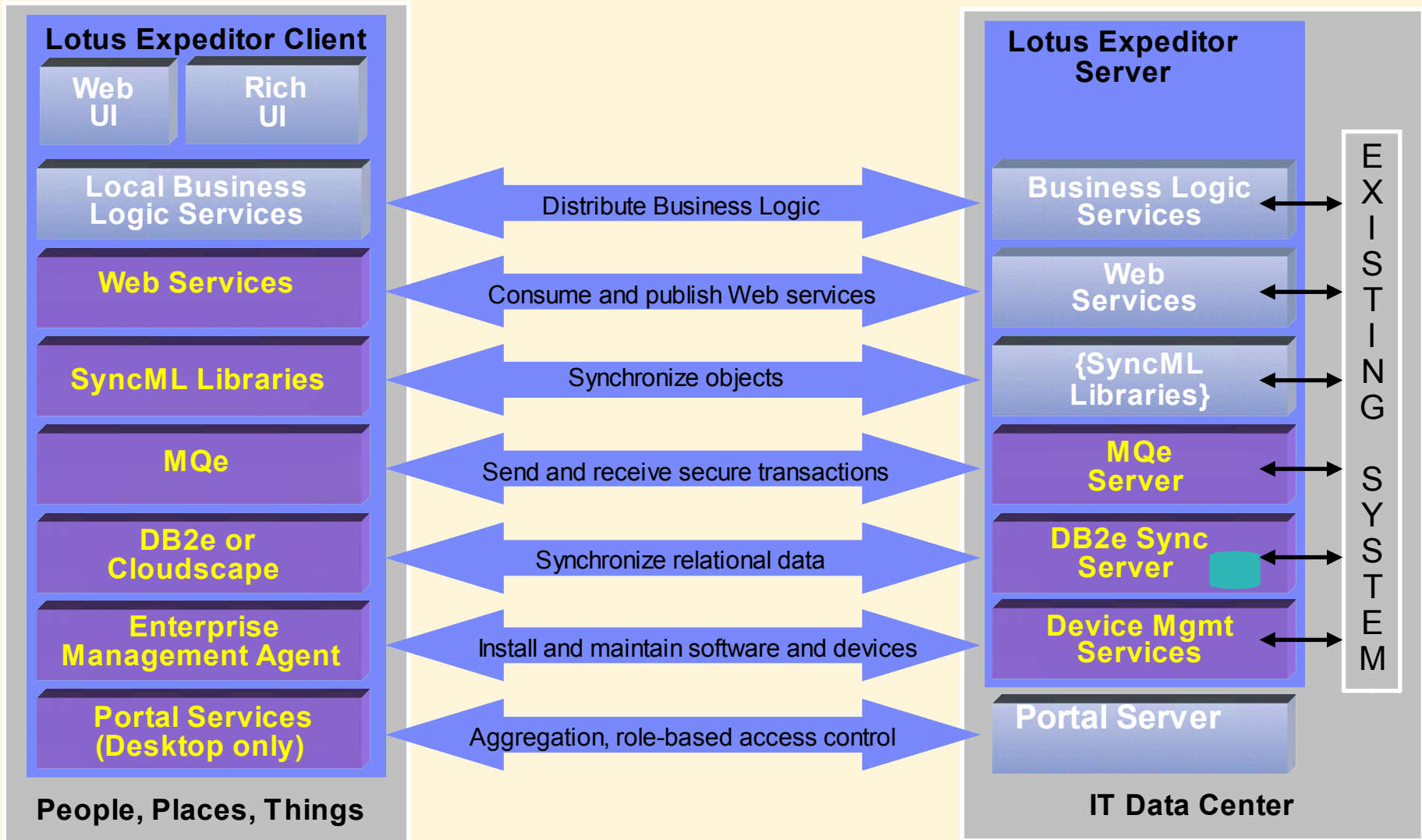
Lotus Expeditor 6.1 Toolkit



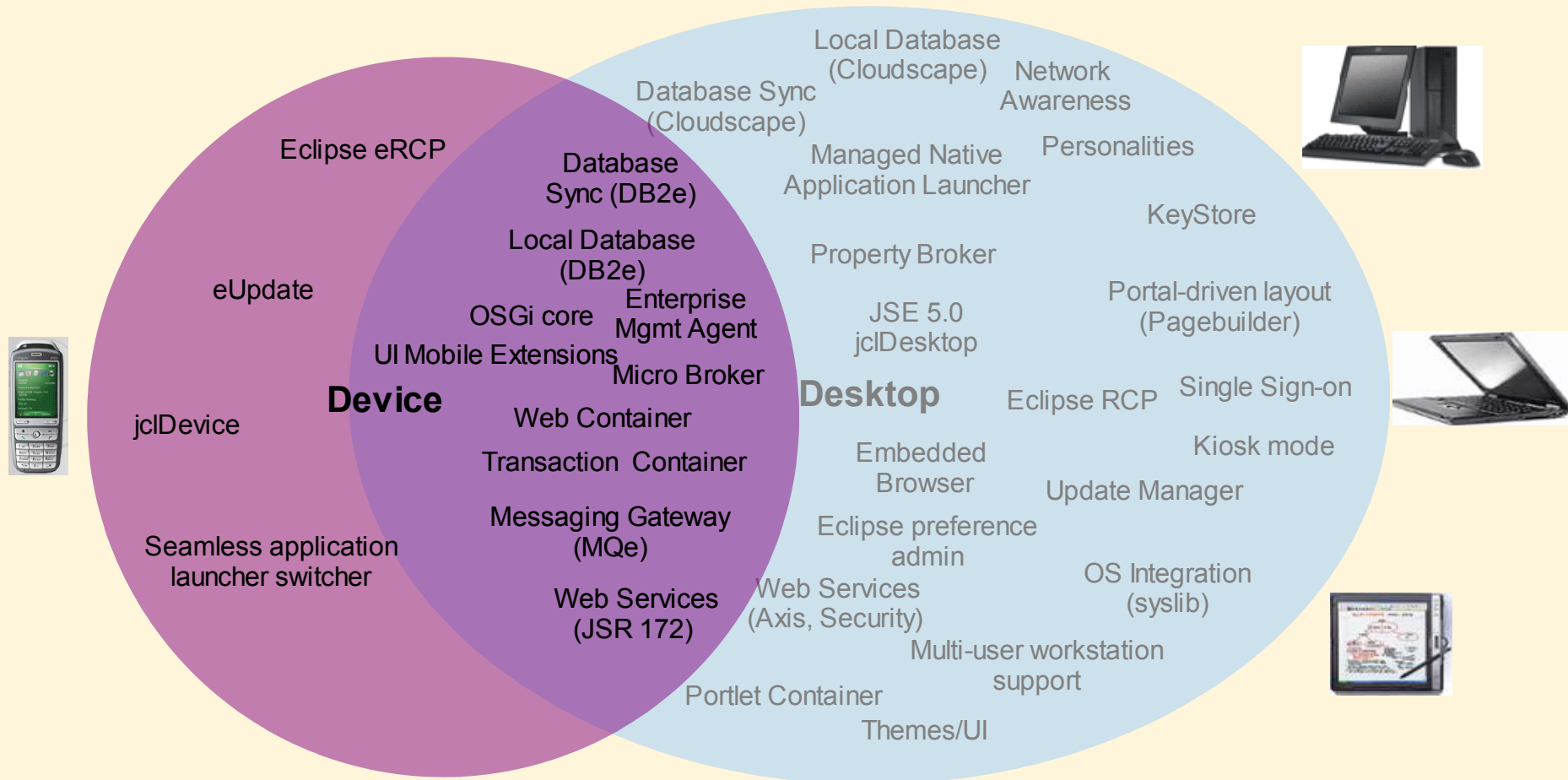
# Lotus Expeditor

## End-to-End Programming Model

 Lotus Expeditor Offering



# Expeditor 6.1 Client Releases





## IBM Lotus Expeditor 6.1 Client for Desktop

- Client platforms

- Microsoft ® Windows XP Service Pack 1 and 2

- Microsoft ® Windows XP Home Edition Service Pack 1 and 2

- Microsoft ® Windows XP Tablet PC Edition 2005

- RedHat ® EL 4.0 WS with GTK support Update 3

- Novell Linux Desktop 9 (NLD9) Service Pack 3

- Microsoft ® Windows 2000 Service Pack 4

- Minimum hardware configuration

- 512MB RAM

- 200 MB free disk space

- x86 processors capable of supporting the client platforms

- Includes by default IBM JCLDesktop configuration with the J9 2.3 VM

- The IBM J2SE 1.5 JVM is also supported on the desktop client and is available as a separately installed feature from the IBM Device Runtime Environment 6.1 CD.





## IBM Lotus Expeditor 6.1 Client for Devices

- Support for following devices:

Microsoft ® Windows Mobile 2003SE  
(PPC and Phone)

Microsoft ® Windows Mobile 5 (PPC and Phone)

Recommended HW requirements: 16MB FS/16MB RAM available

Devices under test: Dell Axim (x50v, x51v), iPAQ (hx4700, hx2790), i-mate JASJAR

Resource Checker will report devices capabilities

- Microsoft ® Windows XP for development



# ***IBM Lotus Expeditor 6.1 Toolkit***



## Lotus Expeditor 6.1 Toolkit - Software Platforms

- Windows XP or RedHat EL 4.0 WS  
Rational Software Architect (RSA) v7.0 or  
Rational Application Developer (RAD) v7.0 or  
WebSphere Application Server Toolkit (AST) 6.1.1  
Samples Gallery and WS-Security editors  
Full Java Server Faces (JSF) support with RSA or RAD  
Supports development of Client Services projects, Web applications, Web Services, Embedded Transaction applications, Portlets and Platform Builder projects
- Eclipse 3.2.1 and Web Tools Project (WTP) 1.5.1  
Supports development of client services projects, Web applications, Web Services and Platform Builder projects



# Lotus Expeditor 6.1 Toolkit – Prerequisites

## Hardware Requirements

512 MB RAM

500 MB free disk space

x86 processors capable of supporting Windows XP/SP2 or RedHat EL 4.0 WS with GTK Support – Update 3

Super video graphics array/adaptor (SVGA) (800 x 600) display minimum (1024 x 768 recommended)

## Software Requirements

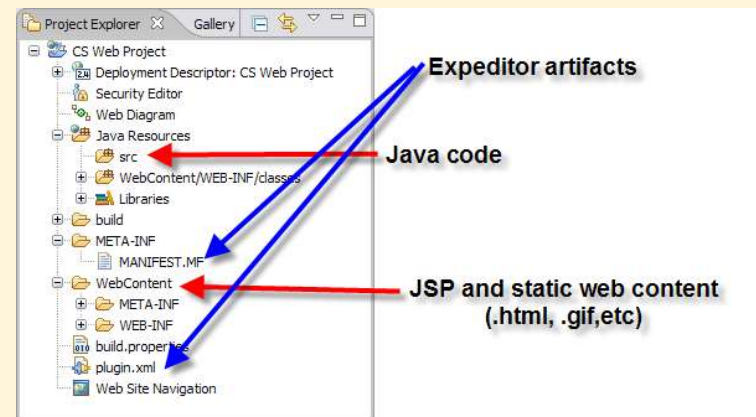
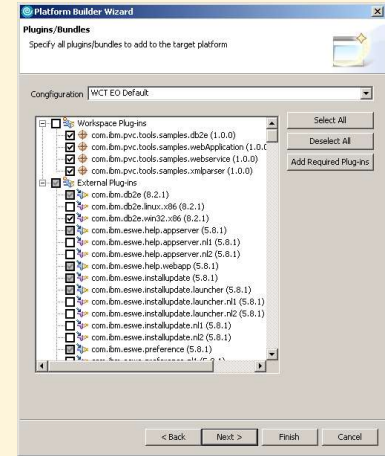
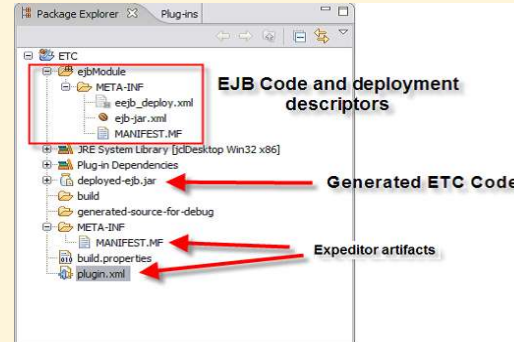
Microsoft Windows XP Service Pack 2 or RedHat EL 4.0 WS with GTK Support – Update 3

IBM Rational Software Architect v7.0, IBM Rational Application Developer v7.0, WebSphere Application Server Toolkit 6.1.1 or Eclipse 3.2.1 with Web Tools Project 1.5.1



# Lotus Expeditor Toolkit: Existing capability

- Installs as a single Eclipse Feature
- Extends Eclipse PDE to develop Client Services projects
- Works with Eclipse Web tools or Rational Web tools to develop Client Services Web applications
- Works with Rational EJB tools to develop Client Services Embedded Transaction applications
- Enables Client Services applications to use messaging and database
- Enables building of custom client platforms (desktop only)
- Provides templates and samples to expedite application development



# ***IBM Lotus Expeditor 6.1 Server***





# IBM Lotus Expeditor 6.1 Server – Software Prerequisites

- **Operating Systems**

Windows® 2003 Standard and Advanced (32-bit version only ) with Service Pack 1

RedHat® Linux® 4 AS and ES Editions, Updates 1-3 supported

- **Database Server**

DB2 Database Enterprise or Workgroup Edition Version 9.1

- **Web Application Server**

WebSphere Application Server Version 6.0.2 fix pack 11+

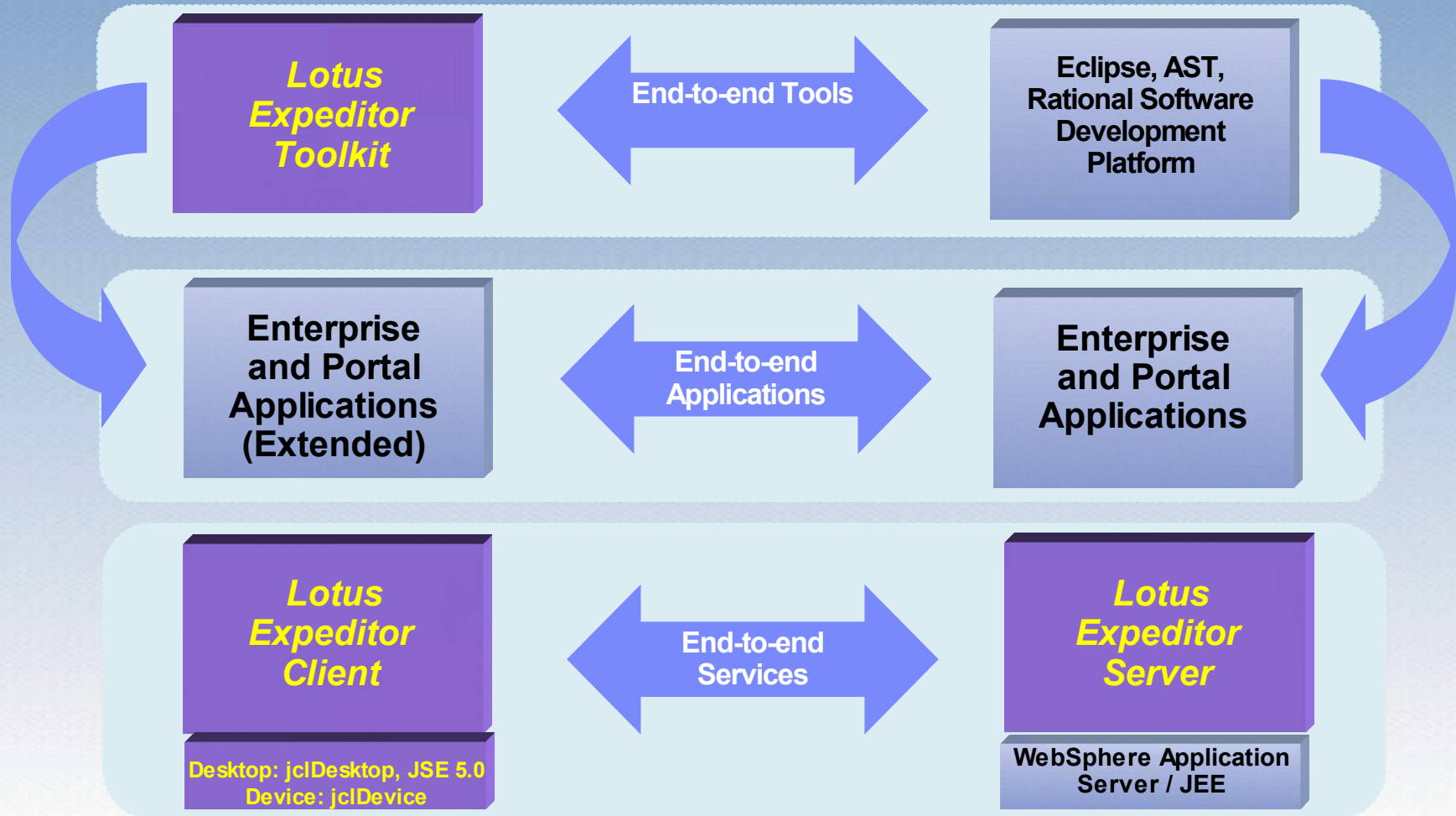
- **Web Server**

IBM HTTP Server Version 6.0.2 fix pack 11+ (Shipped with WAS)

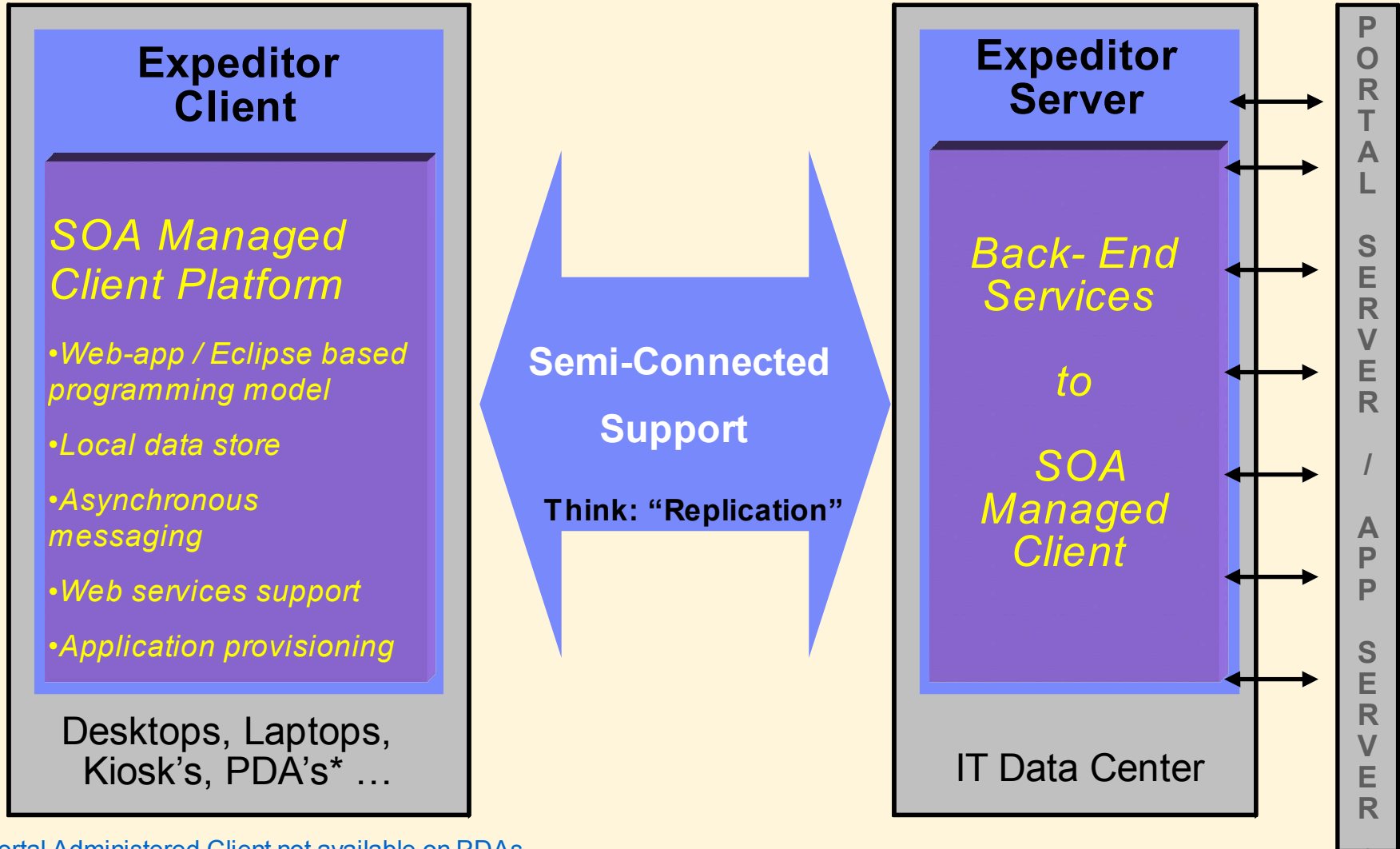


# Lotus Expeditor

Extending Business Process Integration out to the Edge



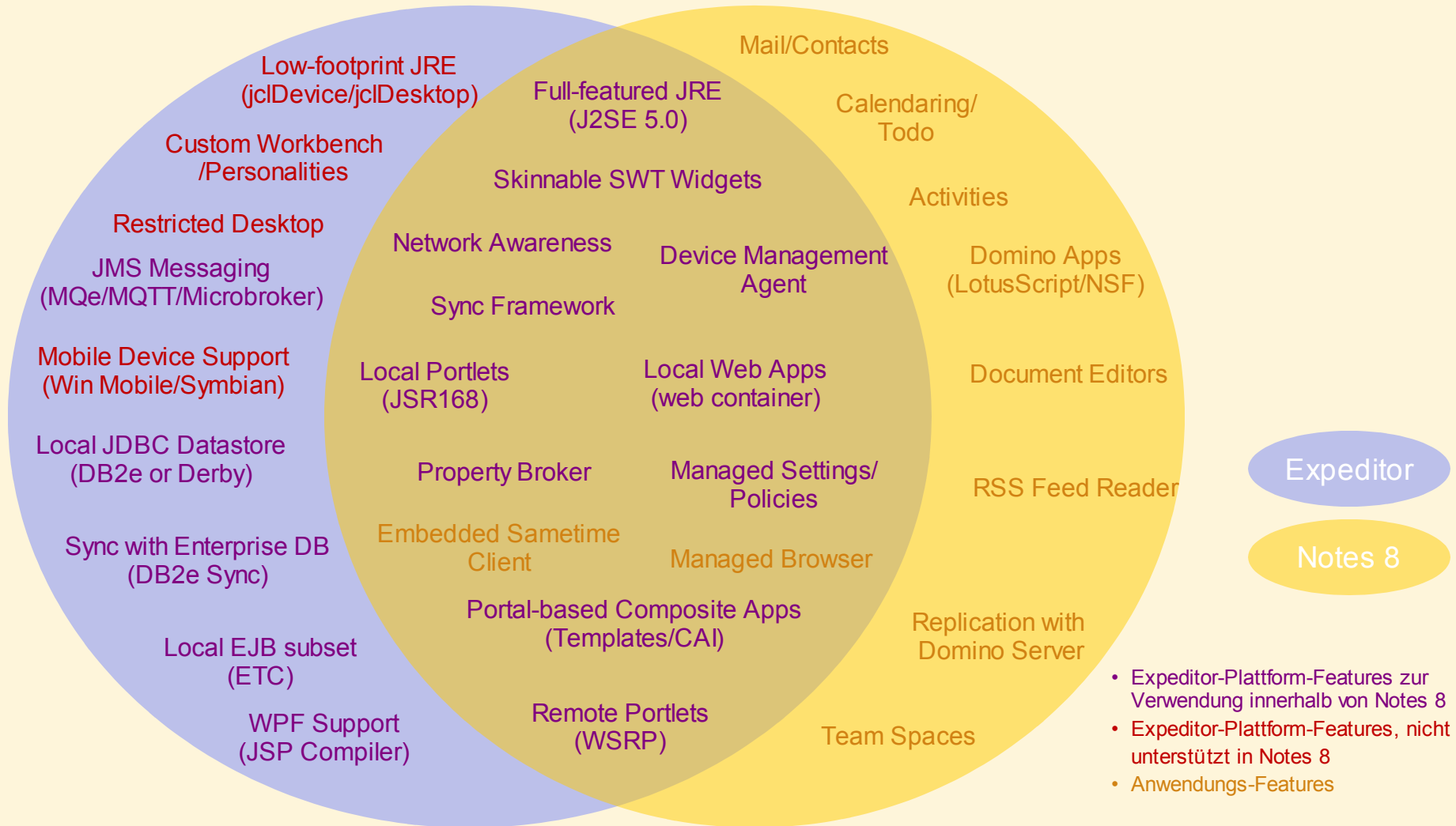
## Lotus Expeditor: Existing capability



\* Portal Administered Client not available on PDAs



# Zwei Plattformen - Expeditor vs. Notes 8



## Expeditor-Applikationen in Notes 8

- Da Notes 8 auf Expeditor basiert, laufen prinzipiell Anwendungen für den Expeditor auch unter Notes
- Allerdings ist im Notes 8-Client die Fähigkeit, Anwendungen über eine Eclipse Update Site zu installieren, standardmäßig ausgeschaltet
- Um den Software Update Manager zu aktivieren, gibt es zwei Möglichkeiten:

Eingriff in folgende Datei:

```
<notes install dir>\framework\rpc\plugin_customization.ini
```

Hinzufügen der Zeile:

```
com.ibm.notes.branding/enable.update.ui=true
```

Neustart von Notes

Administration über Richtlinien auf dem Domino-Server



# Composite Applications

- Unterstützung modularer Anwendungen
- Anwendungen verschiedener Komponenten aus mehreren Anwendungen
- rollenbasierten Arbeitsumgebung
- Benutzer können mehrere Anwendungen in einer einzigen integrierten modularen Anwendung kombinieren
- z. B. aus einer Lotus Notes-Standardanwendung für die Onlinezusammenarbeit und Komponenten aus Anwendungen für Sales-Force-Automation (SFA), Customer-Relationship-Management (CRM) und Auftragserfassung zusammensetzen

**Corporate Customers - All by - IBM Lotus Notes**

File Edit View Actions Tools Window Help

Available Search [All Email]

Launch Getting Started Mail Calendar Customer Profiles Contacts Contact Cards

**ZetaBank**  
Corporate Customers

New Account Search Edit

ID	Account	Contact	Location
1750	3B Technologies	Joe Nomura	San Jose
1917	Hammerhead Construction	Josh Barnstable	Carmel
2042	Aegean Paints	Art Yannatos	Portland
2060	HHZ Contracting	Helen Houghton	Sunbury
2101	Travel Web	Linc Harvey	Berkeley
2291	Magnum Homes	Howard Miller	Hong Kong
2345	Renovations	Dina Maroni	San Francisco
2413	Arturo Remodeling	Art Mancini	Berlin
2454	Kravitz Contractors	Max Horowitz	Yonkers
2645	Kendra Designs	Bob Kendra	Phoenix

**Account Manager**

Company: 3B Technologies  
 ID: 3214  
 Account manager: Matthias Kramer  
 Phone: 312-555-3289  
 Email: [mkramer@zetabank.com](mailto:mkramer@zetabank.com)

**Sales History**

Sales history for: 3B Technologies

More info Quotes Revenues Target account selling

Description: Produces innovative medical devices. Specializes in cardiovascular products. Rumored to be going public in 2006

Current volume: 125,000  
 Potential volume: 500,000  
 Sales team: Harris  
 Opportunity currency: USD

**Contacts**

View: My Groups  
 Quick find: he

- Project Planning Group
- Work
- Peter Brown
- Lukas Geiger
- Mike Motler
- Natale Olmos

**Calendar**

Activities

Quick find:

**My Activities**

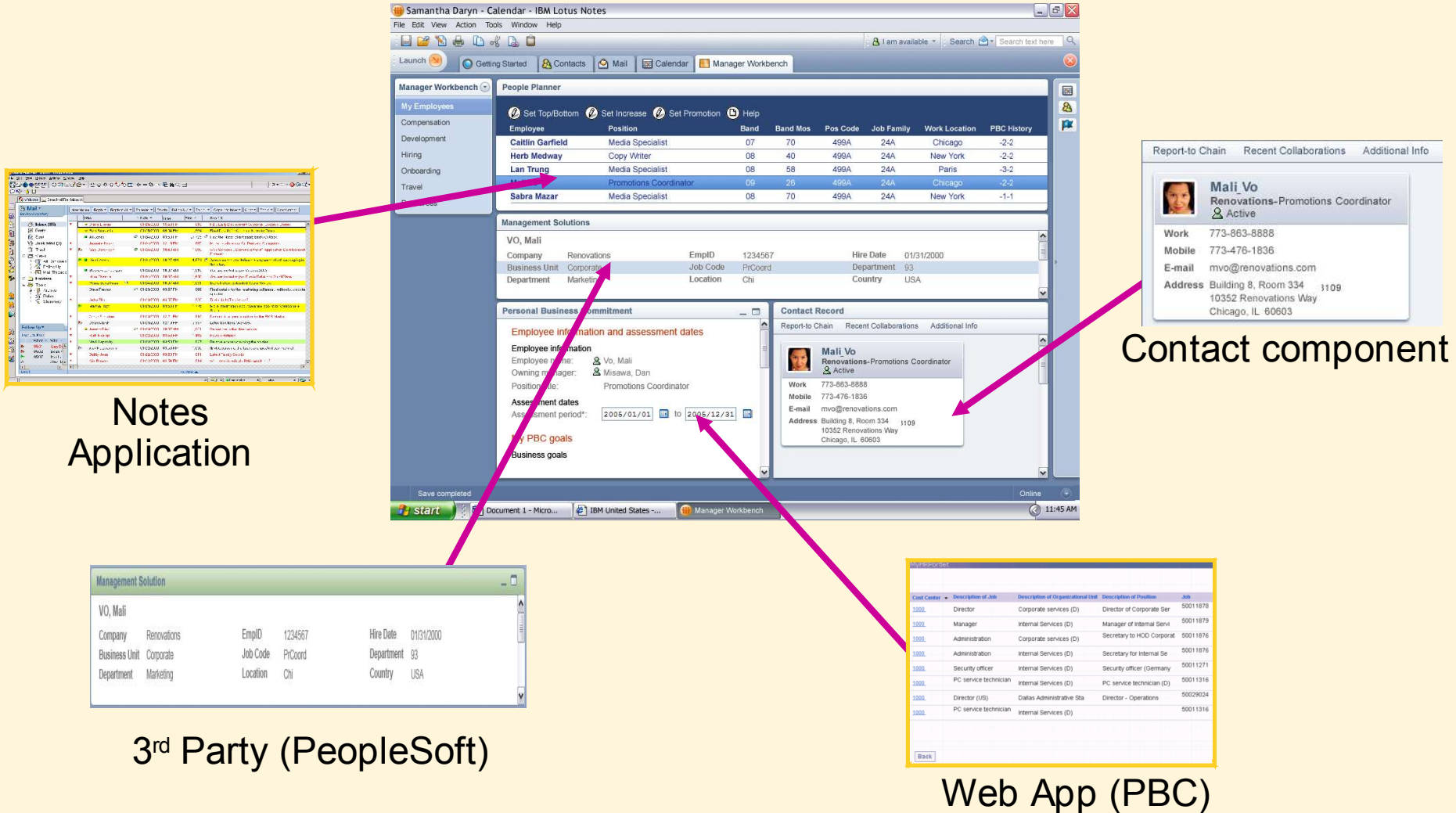
- Customer Support team Jan 19, 2006 | Lukas Geiger
- Customer Support team Jan 19, 2006 | Lukas Geiger
- Ireland Opening Jan 11, 2006 | Lukas Geiger
- Quarterly Report Jan 10, 2006 | Lukas Geiger
- Conference trip Jan 10, 2006 | Minh Li
- New York trip Jan 10, 2006 | Jasmine Haj
- Loan process Jan 10, 2006 | Minh Li
- Mortgages Jan 10, 2006 | Lukas Geiger

Dashboard Items Subscribe

Online



# Notes Applications werden Composite Applications



# Composite Applications

Manager Workbench - IBM Lotus Notes

File Edit View Action Tools Window Help

Launch Mail 4 Calendar Manager Workbench

I am available Search text here

**Manager Workbench**

- My Employees
- Compensation
- Development
- Hiring
- Onboarding
- Travel
- Resources

**People Planner**

Set Top/Bottom Set Increase Set Promotion Help

Employee	Position	Band	Band Mos	Pos Code	Job Family	Work Location	PBC History
Caitlin Garfield	Media Specialist	07	70	499A	24A	Chicago	-2-2
Herb Medway	Copy Writer	08	40	499A	24A	New York	-2-2
Jan Wong	Media Specialist	08	58	499A	24A	Paris	-3-2
<b>Mali Vo</b>	Promotions Coordinator	09	26	499A	24A	Chicago	-2-2
Robert Mizar	Media Specialist	08	70	499A	24A	New York	-1-1

**Management Solution**

Company	Renovations	EmpID	1234567	Hire Date	01/31/2000
Business Unit	Corporate	Sub Code	PrCoord	Department	93
Department	Marketing	Location	Chi	Country	USA

**Personal Business Commitment**

Employee information and assessment dates

Employee information

Employee name: **Vo, Mali**

Owning manager: [Avatar] [Name], Dan

Position title: Promotions Coordinator

Assessment dates

Assessment period\*: 2005/01/01 to 2005/12/31

My PBC goals

Business goals

**Contact Record**

Report-to Chain Recent Collaborations Additional Info

**Mali Vo**

Active

Work 773-863-8888

Mobile 773-476-1836

E-mail mvo@renovations.com

Address Building 8, Room 334  
10352 Renovations Way  
Chicago, IL 60603

start Document 1 - Micro... IBM United States ... Manager Workbench Online 11:45 AM



**Edit Mode Perspective - Editing: Notes 8.0 Contacts Application**

File Editing View Create Edit Tools Help Actions

**Notes 8.0 Contacts Application**

- Done
- Forum
  - Notes Contacts View
  - Notes Domino Forum
  - Tag Cloud Eclipse View

**Edit Mode Perspective - My Contacts**

New Edit Browse for Contact...

Name	Photo	Details
Betty Zecl		
Dan Misa		
David Arn		
Ed El-Am		
Frank Ad		
Gardner f		
<b>Glenn Cloud</b>		<p><b>Glenn Cloud</b>            IT Renovations —            Customer Service            Representative            gcloud@prenovat            ions.com            647-555-8901</p> <p><b>E-mail</b>            Business: gcloud@prenovations.com</p> <p><b>Phone Numbers</b>            Office phone 647-555-8901</p> <p><b>Other Information</b>            Messaging ID: gcloud@prenovations.com</p>
Heather F		
Howard C		
Jasmine		
Ling Shin		

**Tag Cloud Eclipse View**

**Interests:**  
 Domino Administrator  
 Domino Designer Domino Server  
 General Notes Client

**Component Palette**

Starts with... Filter Clear

- General
  - Topology Eclipse View
  - Tag Cloud Eclipse View
  - Property Broker Eclipse View
  - Lotusphere Sessions
  - CustomBuddy List
  - Account Manager
  - Sales History
- Notes Components
  - Notes Contacts View
  - Notes Contacts Navigator
  - Notes Domino Forum
  - Customer Customers
  - Discussion
  - Teamroom

**Wiring**

Source

Notes Contacts View

Person Display Name

Notes Domino Forum

Select By Topic

Select By Author

Tag Cloud Eclipse View

Display Person's Interests

OK Cancel

**Domino Designer**

Started 06/28/2006

Formatting Text using @Func

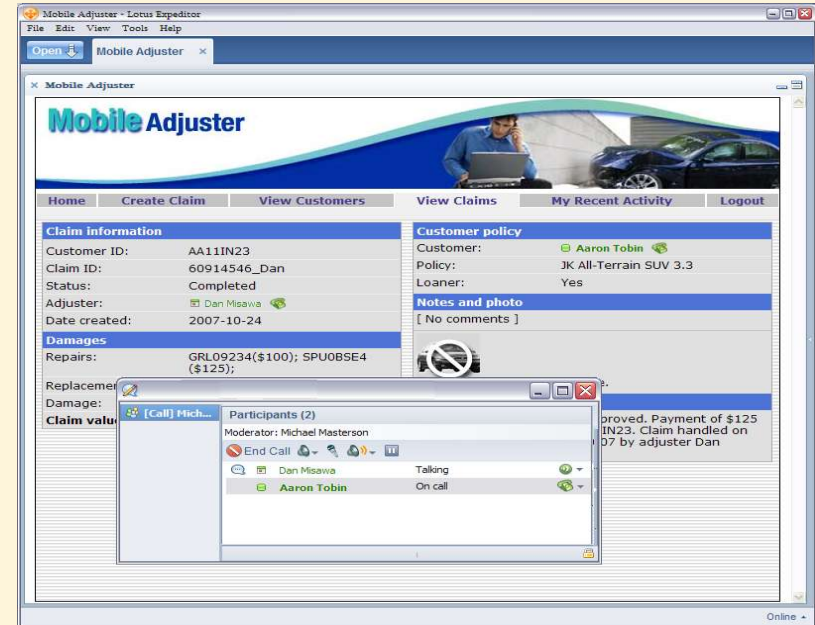
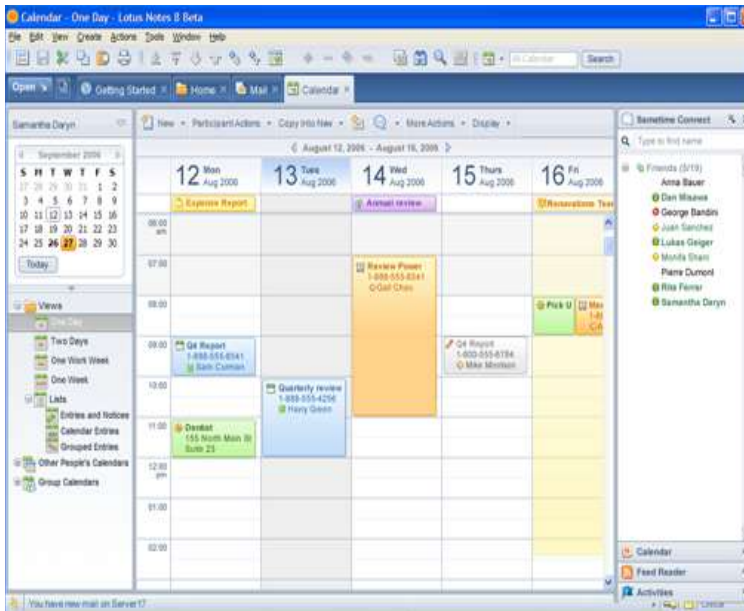
RE: Formatting Text using @

RE: Formatting Text usi



# Lotus Expeditor: Client Middleware

*Composite Applications auch auf Laptops, Desktops, Kiosk-PCs und mobilen Geräten*



Ermöglichen einer Integration aus  
 Collaboration Werkzeugen und  
 verbundenen composite Apps...  
 ... aufgewertet durch  
 Geschäftsbereichsanwendungen

Desktop Anwendungsintegrations-  
 Plattform...  
 ... aufgewertet durch Collaboration



# Atlantic: SAP integriert und damit intuitiver nutzen

**New Trip Request for Samantha Daryn - IBM Lotus Notes**

File Edit View Create Actions Text Tools Window Help

Home Lotusphere New Trip Request for Samantha Daryn

Save and Send Request Save as Draft Delivery Options... Check Calendar...

**Trip Request**  
Type: Customer Travel

Your trip request must be approved by: **Frank Adams** Change...

Why: Business Purpose: To demonstrate new products to Zeta Bank

Where: Destination: Somers, NY

When: Departure: Mon 01/21/2008  
Return: Mon 01/21/2008

Estimated Costs:	Airfare:	\$0.00
	Hotel:	\$0.00
	Transportation:	\$0.00
	Meal:	\$0.00
	Other:	\$0.00
	<b>Total:</b>	<b>\$0.00</b>

Right sidebar: Atlantic, Make Travel Plans, Start from a previous trip, Choose new destination, Renovations Travel Policies, Day-At-A-Glance, LotusSphere 2008, Sametime Contacts, Activities, Feeds, Toolbox.



**Approval required for trip request - IBM Lotus Notes**

File Edit View Create Actions Tools Window Help

Home Lotusphere Frank Adams - Mail Approval required for trip request

Approve Reject Delegate... Request Information... Check Calendar

**Review Trip Request**  
From: Samantha Daryn  
Type: Customer Travel

Why: Business Purpose: To demonstrate new products to Zeta Bank

Where: Destination: Somers, NY

When: Departure: Mon 01/21/2008  
Return: Mon 01/21/2008

Estimated Costs:	Airfare:	\$520.00
	Hotel:	\$360.00
	Transportation:	\$140.00
	Meal:	\$0.00
	Other:	\$0.00
	<b>Total:</b>	<b>\$1020.00</b>

Right sidebar: Travel Budget (Pie chart: \$122 vs \$37), Report Subscriptions, My Staff (Charlie Hamilton, Dan Misawa, Natalie Olmos), Day-At-A-Glance, LotusSphere 2008, Sametime Contact..., Activities, Feeds, Toolbox.



# Lotus Symphony als „verdrahtete“ Anwendung

Integration z.B. mit Lotus Notes und Lotus Sametime

The screenshot displays the Lotus Symphony interface with the following components:

- Database View (Top):** A table titled 'ZetaBank Corporate Customers' showing prospect data. A yellow box labeled 'NSF Daten' is overlaid on the table.
- Spreadsheet (Middle):** A 'Sales Lead Report' spreadsheet with columns for STATUS, REVENUE, LOANTYPE, and SALESREPS. A yellow box labeled 'Symphony Spreadsheet' is overlaid on the spreadsheet.
- Chart (Center):** A 3D pie chart titled 'Sales Revenue Chart' with a legend for 'Closed', 'New', 'Opportunity', and 'Pending'.
- Properties Panel (Right):** A 'Text and Cell Properties' panel showing font and appearance settings.
- Annotation (Bottom):** A yellow box labeled 'Sametime Awareness' is overlaid on the bottom part of the spreadsheet.

Status	ID	Subject	Contact	Size
<b>Kraja Systems</b>				
<b>Closed</b>				
	205	Kraja Systems	SpasenievaKrylov@llama.ibm.com	GA Under \$10
<b>New</b>				
	238	Kraja Systems	GasparMilosz@llama.ibm.com	FL \$10-100 m
	288	Kraja Systems	@llama.ibm.com	NC \$1-10 billio
<b>Opportunity</b>				
	289	Kraja Systems	ChanLaRocheoire@llama.ibm.com	MS Under \$10
<b>Pending</b>				
	231	Kraja Systems	SalvatoreAragazzi@llama.ibm.com	NC \$10-100 m
	256	Kraja Systems	LindaGéza@llama.ibm.com	CA Under \$10
	249	Kraja Systems	PaulaVonGruenigen@llama.ibm.com	AR \$10-100 m
	254	Kraja Systems	MelissaDawson@llama.ibm.com	NC Under \$10

STATUS	REVENUE	LOANTYPE	SALESREPS
Closed	200	Venture Capit	Mihir Shah
New	30	Real Estate	Bhavesh H Shah
New	36	Business Dev	Edward L Martis
Opportunity	294	Business Dev	Dawn Di Centa
Pending	70	Venture Capit	Philip A Loats
Pending	160	Venture Capit	Dawn Di Centa
Pending	128	Venture Capit	Hie Jai Wu
Pending	480	Business Dev	Dawn Di Centa
Pending	90	Real Estate	Hie Jai Wu
Pending	280	Business Dev	Dawn Di Centa
Qualification	84	Real Estate	Dawn Di Centa
Qualification	3	Business Dev	Hie Jai Wu
Qualification	500	Real Estate	Philip A

Demo



# Mobile Anwendungen



Thank  
You

