



Simplified Technology Solutions, Inc



Analysis and Design Assistance

Custom Application Development

Systems Integration Services

IBM Lotus Notes/Domino 8.5 – ATLUG 09

by Darren Duke

Technical Lead & All Round Good Guy



IBM. Lotus software



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STS – For those who don't know....

- Simplified Technology Solutions (STS)
 - has over 15 years experience in the Domino world dating back to R3
 - “Long Suffering” Lotus Notes advocates
 - IBM Advanced Business Partner
 - BPAC and LoLA Members
 - Deep expertise in AS400, AIX and Linux and running Domino on VMware
 - Covers the Lotus brand
 - Domino
 - Connections
 - Quickr
 - Sametime
 - Protector
 - Lotus Mobile Connect
 - LEI



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Agenda

- Presentation of ND8.5 benefits, entitlements and reasons to upgrade – also what was in ND8.0.x
- Detailed overview of ND 8.5 server / admin features
- Detailed overview of ND 8.5 application development features
- Coming in 8.5.1
- Hopefully we'll be done inside of 10 minutes!
 - I'm joking, we won't be



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Poll – Notes/Domino version?

- 4.x?
- 5.0.x?
- 6.0.x?
- 6.5.x?
 - End of Support in 36 weeks
- 7.0.x?
 - End of Support on 04/30/2011
- 8.0.x?
- 8.5?



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Poll – Using any add-ons/entitlements?

- Sametime?
- Quickr?
- Portal?
- Connections?
- Lotus products on VMware?



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If you are on Passport Advantage....

- How much does it cost your organization to purchase ND 8.5?
 - Nothing. Nada. Zero. Zilch. \$0.00

- Can you therefore do more with less?
 - Hell yeah!

- Can you therefore look like a rock star inside of your organization, just by implementing ND 8.5?
 - Hell yeah!



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IBM Lotus Notes and Domino Market Leadership

- 20 years of leadership in the collaboration space
- Over 130M licenses of Lotus Notes and Domino have been sold worldwide
- Lotus Notes and Domino has seen sixteen consecutive quarters of year-to-year growth from 4Q04 through 4Q08 (have added 12,236 customers since 8)
- More than half of America's largest 100 corporations use Lotus Notes and Domino
- More than half of the FORTUNE Global 100 corporations use Lotus Notes and Domino
 - 8 of the top 10 banks
 - 4 of the top 5 consumer products corporations
 - 7 of the top 10 electronics corporations
 - ✧ 8 of the top 10 insurance corporations
 - ✧ 8 of the top 12 pharmaceutical corporations
 - ✧ 9 of the top 12 telecommunications corporations
- Lotus data indicates that approximately 97% percent of Lotus Notes and Domino customers are on the 6.5.x release or higher



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What are the key benefits of Notes 8.x?

Eclipse and open platform

Composite Applications

Improved user interface

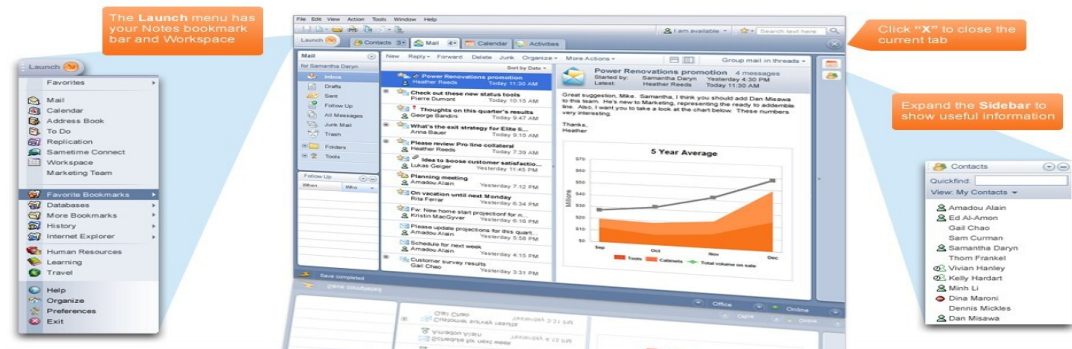
Productivity Editors
aka Symphony

Enhancements to core mail, calendar, and contacts

Continued multiplatform client support (Windows, Linux and Mac)

Server-managed and provisioned

NO rip and replace (with addition of Basic client)





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What are the key benefits of Notes 8.5?

Better contextual menus

Updated Symphony

Calendar Federation – add, select, access

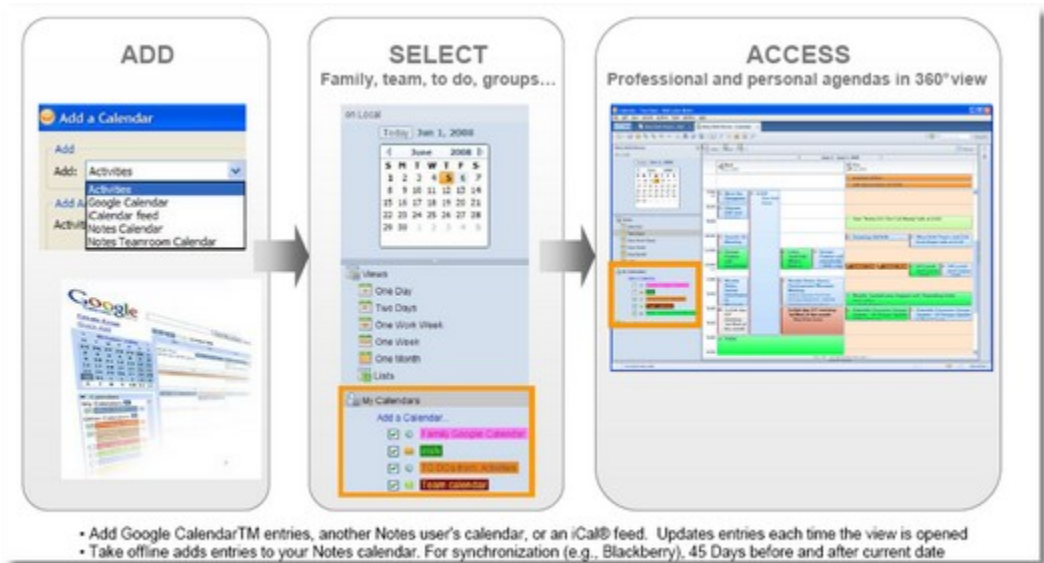
- iCal
- Google Cal
- Other Notes users
- Notes apps
- Connections

vCard standardization

iNotes looks like client

Open In New Window

Signature stored in mail file





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Domino Server 8.0.x improvements

- New and enhanced messaging
 - Message recall
 - Web password lockout (“x” strikes rule)
 - Improved Out-Of-Office – sent immediately, not after 6 hours
- Dramatic improvements in admin, performance and security
- Sub processor licensing for VM installs
- Open applications infrastructure
 - Web services provider & consumer
- Consistent architecture, same skill set as R5 onwards





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Domino Server 8.5.x improvements

- DAOS-Domino Attachment and Object Service
 - Reduce overall NSF sizes by up to 77% in disk space
- ID Vault
- DCT – Domino Configuration Tuner
- DDE-Domino Designer in Eclipse
- X-Pages design element (Java Server Faces)
- Native 64 bit OS support for Windows 2003 and AIX, others coming in subsequent releases
- FIPS 140-2 support
- iPhone support





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Notes/Domino 8.5 entitlements

- Existing entitlements from **ND6/7**
 - **Integrated instant messaging/presence**; *functionally unchanged (other than graphical) from ND6/7*
 - **WebSphere Application Server 6.1** limited entitlement
- New entitlements in **Notes/Domino 8**
 - **Tivoli Directory Integrator**: For use when integrating Domino with non-Domino directories (such as LDAP, Active Directory)
 - **Quickr Entry Edition** : File and share content
 - **DB2 9.1**: Limited entitlement for storing Domino data only**
 - **Lotus Expeditor**: Limited entitlement for use within context of Notes and composite applications
 - **Lotus Component Designer**: Entitled with Domino Designer 8
 - Intended to introduce Domino app developers to LCD



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Continued Growth and Innovation

Lotus Notes 7.0.2

- Lotus Notes on a Stick
- RSS feed reader
- iCal import and export
- Blog Template
- Notes Access for SAP Solutions
- Macintosh support
- Linux Support (7.0.1)

Lotus Notes 8.0

- Enhanced mail, calendar, contacts
- Continuity for Notes users
- Activity centric computing
- Contextual collaboration
- Composite Applications
- Windows, Vista and Linux

Lotus Notes

8.0.1

- iCal subscription

Lotus Notes 8.5

- Continued UI refinement
- Composite application extensions
- Social software extensions
- Updated Mac client

Jan 2009

Lotus Domino 8.5

- Reduce cost of storing e-mail
- Active Directory support
- Simplified ID management
- Web application development Updates - XPages

Feb 2008

Lotus Domino 8.0.1

- 64-bit support
- FIPS-140 for Notes mail
- Extended email security
- New DWA low-bandwidth

3Q07

Lotus Domino 8.0

- Mail recall
- Extended policy management
- Extended Web services
- Composite applications

1Q07

Lotus Notes & Domino 8.0 Public Beta

2006

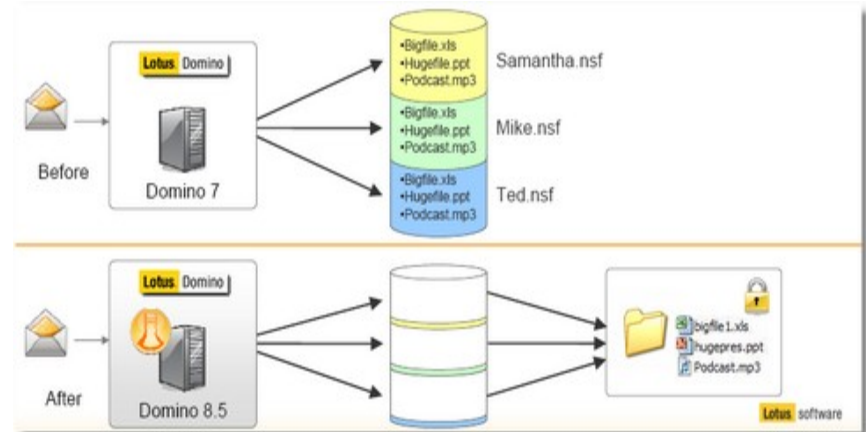
Note: Information is subject to change



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Domino 8.5 Server - DAOS

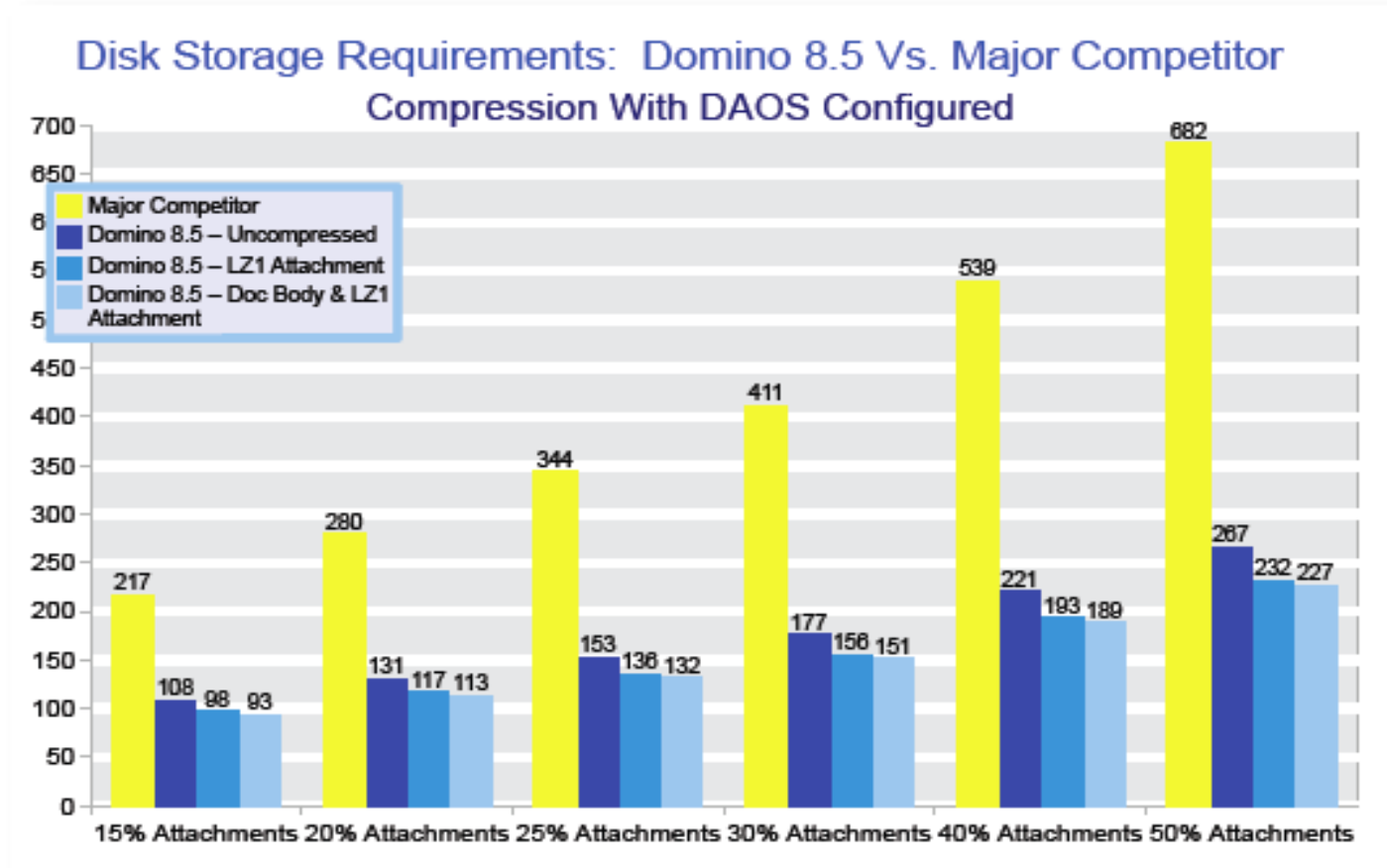
- My personal favorite – requires transaction logging!
- It is **not** Shared Mail, it is **not** Shared Mail, it is **not** Shared Mail
- Between 40% and 77% less overall storage required
 - Single instance storage of attachments/objects present in multiple NSF files residing on the same server
 - Stored as files on “file system”
 - Incremental backups
 - Actual NSF up to 90% smaller
 - Quotas still work
 - Secure, encrypted by default
 - No more copy and paste of NSF files between servers!
 - Backup implications





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Domino 8.5 Server - DAOS



Courtesy Ed Brill (www.edbrill.com)



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Domino 8.5 Server – DAOS

- Regardless of DAOS you should already be using TX Logging
 - Use a separate drive (preferable RAID1) or RAW LUN
 - Local storage is best performance
 - With “Archived” you can do point in time restores of an NSF
 - “Circular” will do fine
 - CREATE_R85_LOG=1 in the notes.ini file
 - Also see Andy Pedisich's post at <http://tinyurl.com/lqwv8v>
- NLO files (the DAOS'd attachments) are encrypted with the server ID by default
- Run “tell daosmgr resync” after enabling it
- Keep away from 2048 bit server ID files (maybe fixed in FP1)
- Everything you ever wanted to know is on the blog



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Domino 8.5 Server – ID Vault

- Who thinks “Password Recovery” is easy to manage and use?
- ID Vault allow for **one-click** password resets of ID files
- Requires ND 8.5+ Server **AND** client
- Stored in a Notes ~~database~~ *application*
 - No need to store ID files on
 - file share
 - usb drive
- Add to ID Vault to your backup
- During registration (via policy) ID can be added to ID Vault automatically
- Synchronizes passwords across multiple copies of ID file
- Notes will download the ID at client install time from the Vault
- Do not just replicate the Vault ~~database~~ *application* to other servers

Owner	ID Modified Date/Time
Ernie Sutter/STS	05/27/2009 01:04:10 PM
Kitira Hall/STS	07/28/2009 02:52:47 PM
Lisa A Duke/STS	08/13/2009 06:16:52 PM
Matt Smith/STS	01/08/2009 06:55:15 AM
Peggy Freedman/STS	07/04/2009 06:41:51 PM



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Domino 8.5 Server – DCT

- Create an “optimally configured” Domino server with the DCT tool
- Ships with 8.5 Admin client as a template (dct.ntf)
 - Simply create a database, restart Notes, off you go
 - Will scan 8.5, 8.0.x and 7.0.x servers
 - Be sure to rescan after any upgrades
 - Updates to tool should be downloaded
 - Use with **caution**
 - There are some options that are “risky / RGE”

Results For Server:		Ace/Iris	
Total Tests Run:		4	
Severity	Count	Percentage	
Fatal	0	0 %	
Failure	0	0 %	
Warning (High)	2	50 %	
Warning (Low)	2	50 %	
Normal	0	0 %	
Exception	0	0 %	

Note: Tests with exceptions may not have run to completion

Rule Execution Results for Ace/Iris	
grouped by severity. click for details [change this]	
<input type="checkbox"/> Warning (High)	
<input type="checkbox"/> DONT_CACHE_MONITOR_FORMULAS	
<input type="checkbox"/> RM_NO_LOG_OBJECTS_IN_MALBOX	
<input type="checkbox"/> Warning (Low)	
<input type="checkbox"/> LOG_REPLICATION	
<input type="checkbox"/> MailLeaveSessionsOpen	



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Domino 8.5 Server – Other Features

- Mail Router has been re-engineered, much better performance
- CPU cycles for transaction logging reduced by over 50%
- New transaction logging format
 - Be careful changing this
- Quickr Services for Domino 8.2 can use DAOS
- Performance improvements * (for W64, other platforms similar):
 - Total disk operations per second reduced by 33%
 - Total disk reads per second reduced by 61%
 - Processor percent busy reduced by 38%

* <http://www.ibm.com/developerworks/lotus/library/domino85-performance/>



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Domino 8.5 Server – Q&A

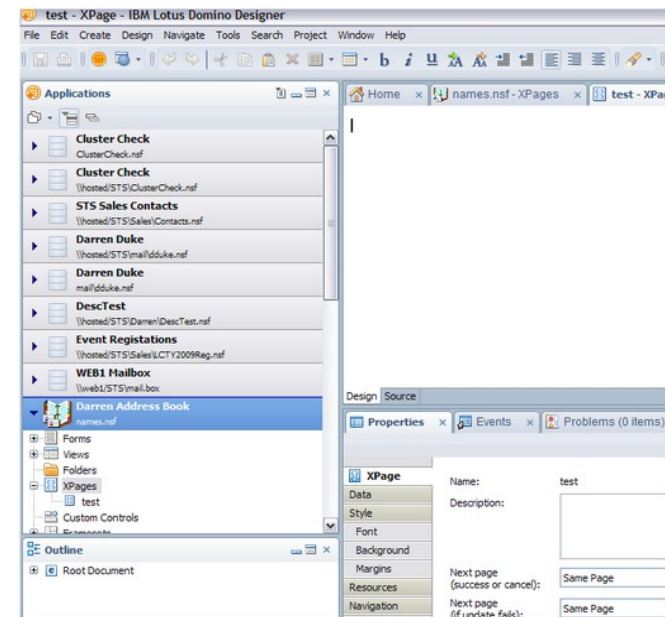
- Exciting stuff, eh?
- Just a few minutes for me to get a drink
- FYI, no questions means either I am doing a very good job, or a very bad job



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Domino Designer - DDE

- Familiar, but better!
 - Extensible
 - Plug-in architecture
 - Real CSS, HTML and JS editors!
 - Working sets, love 'em or hate 'em
- There is no “basic” version
- Not everything has been Eclipsed. See 8.5.1
- Yes, it is somewhat slow. See 8.5.1
- Dojo is the JS toolkit of choice
 - Also used in Quicr
- See 8.5.1 ;)

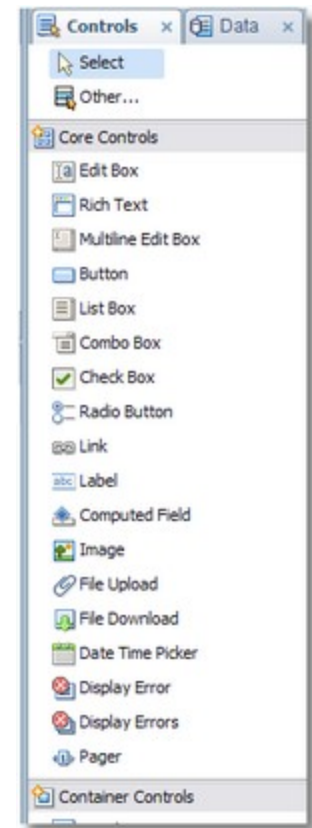




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Domino Designer - XPages

- New web oriented design element
- XPages = JSF = Java Server Faces (JSR 127)
 - Yes, a real web development standard
- Separation of UI and data
 - XPages don't store any data (unlike a form)
 - Display multiple data sources on one page
 - Multiple documents and/or views
 - Multiple databases
- Drag-and-drop, like visual Eclipse or Visual Studio
 - Then wire the components together
- Behind the scenes (or not) it is XML
- More in 8.5.1 ;)

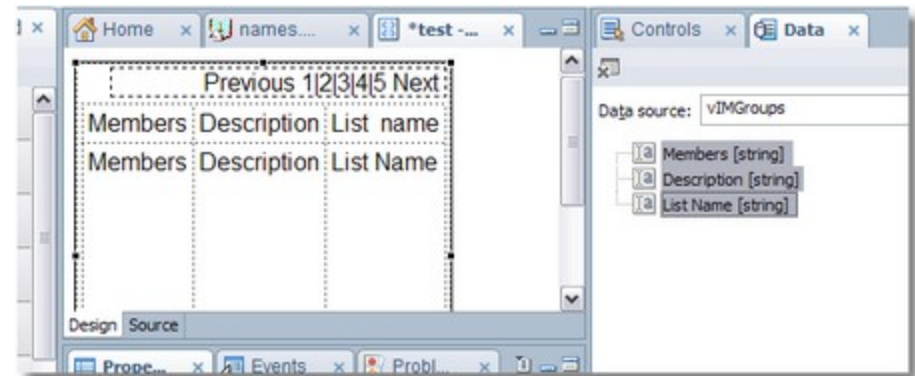




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Domino Designer - XPages

- UI is separated from design using CSS
- “Themes” can be used to change look and feel...
 - Of application
 - Of entire server
- Easy AJAX
 - Partial page refreshes at a click of a mouse
- Real web development
 - For a real web platform
- Create your own “controls”

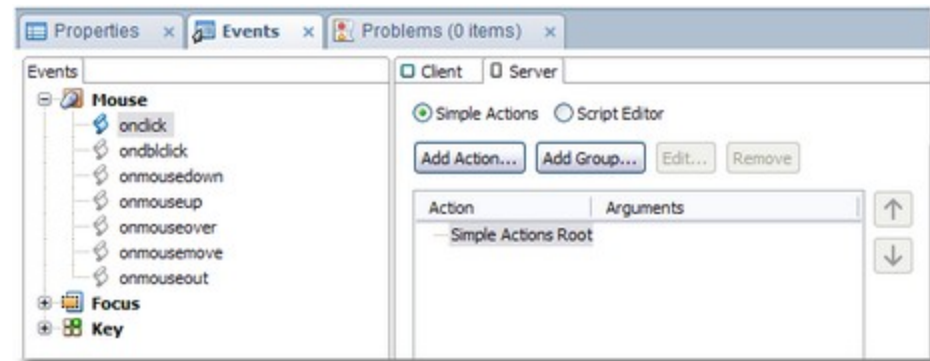




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Domino Designer - XPages

- It is all just JavaScript, no Java - honest
- Event driven coding – just like Notes
- Full Domino object model in JS
- IBM converted 80%+ of @functions into JS too....
 - Just use a “,” in place of a “;”
- Any JSF component can be imported too
- JS can execute in two places
 - Server-side (think agent)
 - Client-side (in browser)
 - You can still use WQO/S
- I18n and Locale support

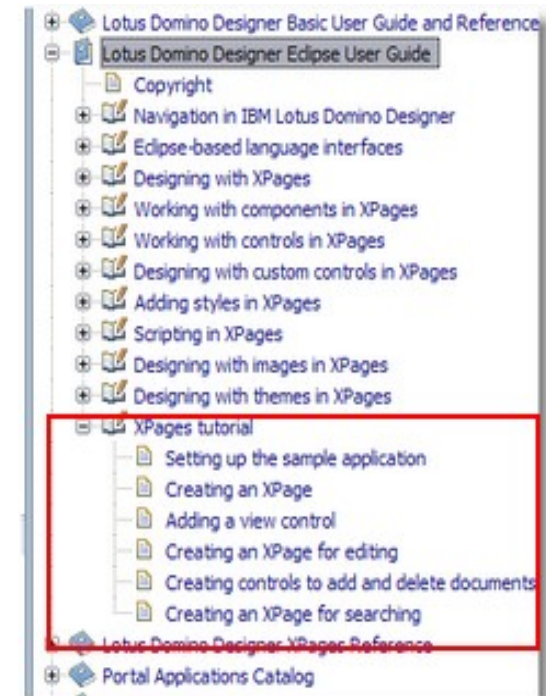




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Domino Designer - XPages

- There is even a tutorial built in to the help you get started
 - No, really, there is, open the designer help in Eclipse (F1) and there is even a sample app
- Declan Lynch
 - 54 part Xpages tutorial
 - <http://tinyurl.com/cvmq43>
- John Mackey
 - LS09 Survey app (try doing this in <= 8.0)
 - <http://tinyurl.com/ndlykl>
- These and lots more on
 - www.planetlotus.org
- IBM just released a \$1,000 course





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Domino Designer – Q&A

- MORE exciting stuff, eh?
- And another drink
- And still.... no questions means either I am doing a very good job, or a very bad job



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Crystal Ball - 8.5.1

- DAOS comes to the replicator task and to the Notes client
- XPages in the client
 - Build it once for both web and client
 - Yes, I have seen it working :)
 - Performance enhancements
- LotusScript Editor in native Eclipse
 - Code complete
 - Object browser
- DDE is 60-70% faster when opening
- GZIP coming to the Domino HTTP stack (larger is not always better)

The screenshot shows the Eclipse IDE interface. On the left, the 'Project Explorer' displays a tree view for the 'AddressParser' project, including folders for '(Options)', '(Declarations)', and methods 'Initialize', 'Terminate', and 'ParseAddress'. The 'ParseAddress' method is selected. The main editor window shows the following LotusScript code:

```

Option Public
Use "GlobalDeclarations"
Dim City As Variant
Dim State As Variant
Dim Address As Variant
Dim Punct As Integer
Dim LastLine As Variant
Dim OtherLines As Variant

Sub ParseAddress(add As Variant, eleme
  REM "Clear out the existing field
  If whichfield = "B" Then
    doc.OfficeStreetAddress=""
  
```



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Crystal Ball - 8.5.1

- Native iPhone Traveler support
- Lotus Protector (think Barracuda) integration into the Notes client
- Client “seems” much faster and snappier
- Better “attachment at top” handling





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Q & A

- N/D 8.5, it really is this good
- If anyone asks a question that I don't know the answer to....
 - You will be asked to leave ;)

- Don't forget “Lotus Knows....” campaign kicking off
 - I told you they were advertising.....
 - Go vote or add you own ideas at <http://lotusknows.idealjam.net/>
 - Open now through Saturday, Aug 22nd at 8:00 AM EST



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Thank you for your time!

- For further information contact or to schedule an upgrade
 - Lisa Duke, lisa.duke@simplified-tech.com or 678 378 4278
 - Ernie Sutter, ernie.sutter@simplified-tech.com or 404 931 5786
- Lots more information on the STS web site and blog:
 - <http://www.simplified-tech.com>
 - <http://blog.darrenduke.net>
 - Twitter – be sure to follow darrenduke and simplifiedtech
- We are an authorized IBM, RIM, VMware and Symantec reseller for new sales and renewals
- R6.5 is being “End Of Life” in April 2010.



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