



**Simplified Technology Solutions, Inc**



**Analysis and Design Assistance**

**Custom Application Development**

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# Notes and Domino Licensing

Webinar Version 1.0

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Java • Lotus Domino • .NET • SQL • BlackBerry

# First Things First

- Go get some aspirin
  - The following slides will surely give you a headache ;)
- Agenda
  - About Me
  - Why this Webinar
  - Short presentation
  - Q&A

# Disclaimer

- I do not work for, nor represent IBM during this presentation
- These are my opinions
  - I am not a lawyer, nor did I say at a Holiday Inn Express last night
  - IBM are free to change the license at any time so print it out and keep it
  - If in doubt, check with legal council

# About me – my fav slide

- Domino consultant for over a decade
- Domino, VMware and BlackBerry certified
- <http://blog.darrenduke.net>
- <http://www.ThisWeekInLotus.com>
- <http://www.TipsInTwo.com>
- @darrenduke on Twitter
- Oddles of DAOS and VMware experience

# Why the Webinar?

- Current confusion as to types of license
- “What license should/can I use”
- The evils of PVU licensing
  - New CPUs can put you out of compliance
- Show you what else you get for “free”
- In hope that, someday you will use us for sales and/or services

# The Types

- Express
- Traditional - Server and Client (PVU and CAL)
- Complete Enterprise Offering (CEO)
- Servers for External Access (Utility PVU)
- The “License” for 8.5.1
  - <http://tinyurl.com/34gm24f>
  - Be careful – it is 2 pages, not 1

# The Types - Express

- Most common in the SMB space
- Employees + Sub-contractors  $\leq$  1000
  - Not users, employees!
- Per user pricing
  - No server cost
  - Clustering prohibited. Period!
  - Use as many Domino servers as you see fit
    - 1 DPAR per hardware server

# The Types - Express

- Express Messaging
  - Use only provided templates “as installed”
    - No OpenNTF, etc
  - Can only modify the email template
  - No DPARs on the same “server hardware”
  - No Clustering
  - No xACL, Dir Asst, Dir Cats, Central Dir

# The Types - Express

- Express Collaboration
  - Use ANY templates from ANY source
  - No DPARs on the same “server hardware”
  - No Clustering
  - No xACL, Dir Asst, Dir Cats, Central Dir
  - Includes WebSphere Application Server
    - On same server as Domino
  - To install or create apps, you need a EntCAL

# The Types - Traditional

- Recently changed
  - February 2010
- Messaging and Collaboration
- Per user AND per server license needed
- Server licensed as “Processor Value Units”
  - Aka PVUs

# The Types – Traditional - Server

- IBM Domino Messaging
  - PVU based
  - Use only provided templates “as installed”
    - No OpenNTF, etc
  - Can only modify the email template
  - OK for DPARs on the same “server hardware”
  - **No Clustering**

# The Types – Traditional - Server

- IBM Domino Enterprise Server
  - PVU based
  - Use ANY templates from ANY source
  - OK DPARs on the same “server hardware”
  - OK Clustering
  - Includes WebSphere Application Server
    - On same server as Domino

# The Types – Traditional - Client

- Domino Enterprise Client Access License
  - You also need server PVUs
  - Per “authorized user”
    - Really reads as per “authenticated user”
  - Required for “Designer” access to servers
    - Each developer, even on Express, needs this CAL
  - Access to any and all Domino applications

# The Types – Traditional - Client

- Domino Messaging Client Access License
  - You also need server PVUs
  - Per “authorized user”
    - Really reads as per “authenticated user”
  - Access only to “pre-installed” applications

# The Types – CEO Bundles

## ● Lotus Communications Bundle

- Per user ONLY (like Express) **with** clustering
  - Unlimited servers
- Higher seat cost than Express and EntCAL
- **No PVU cost on the server side**
  - You'll see why this is important on the PVU slide
- Minimum 100 seats required
- See <http://www-01.ibm.com/software/lotus/passportadvantage/ceoproductcategories.html> for other bundles, Quickr, Sametime, etc

# The Types – Traditional - Server

- IBM Domino Utility Express Server
  - PVU based (confused yet?)
  - Use ANY templates from ANY source
  - 4 DPARs on the same “server hardware”
  - OK Clustering
  - OK WAS on same server
  - Limited to 1,000 employees and 1,600 PVUs
  - **No Mail**

# The Types – Traditional - Server

## ● IBM Domino Utility Server

- PVU based
- Use ANY templates from ANY source
- OK DPARs on the same “server hardware”
- OK Clustering
- Includes WebSphere Application Server
  - On same server as Domino
- Includes Lotus Workflow
- No Mail

# Sub-capacity

## ● Read: Virtualization

- IBM reserves the right to audit you using the IBM License Metric Tool (ILMT)

<http://www-01.ibm.com/software/lotus/passportadvantage/subcapacityattachments.html>

- You agree to install the ILMT within 90 days if
  - >1000 employees and other restrictions
  - All PVU products are eligible for sub-cap except

– [ftp://ftp.software.ibm.com/software/passportadvantage/SubCapacity/Sub\\_Capacity\\_Eligible\\_Programs.pdf](ftp://ftp.software.ibm.com/software/passportadvantage/SubCapacity/Sub_Capacity_Eligible_Programs.pdf)

● See <http://tinyurl.com/33gzbfx> for full details

# Processor Value Units (PVUs)

- A complicated and often painful way of licensing software
- IdeaJam to move away from PVU, go vote!
  - <http://tinyurl.com/35h7b2l>
- Current PVU chart is available at
  - <http://tinyurl.com/5gmlo5>
- Total PVUs required calculation
  - process cores used X PVUs per core

# Processor Value Units (PVUs)

● Power, Z and other RISC

Processor Vendor	Processor Brand			Processor Type					Processor Model Number	PVUs per Core
	Processor name	Server model numbers	Maximum number of sockets per server	Cores per socket						
				One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)	Octa-Core (8)		
IBM	POWER7 <sup>4</sup>	770,780	8			■	■	■	All	120
		750,755	4				■	■	All	100
		PS700-702	2				■	■	All	70
	POWER6	550,560,570,575,595	All		■				All	120
		520, JS12, JS22, JS23, JS43	All		■				All	80
		All	All		■				All	100
	POWER5, POWER4	All	All		■				All	50
	POWER5 QCM	All	All			■			All	120
	System z10 <sup>1</sup>	All	All					■	All	100

Processor Vendor	Processor Technologies									Processor Model Number	PVUs per Core
	Processor Brand		Maximum number of sockets per server	Cores per socket				IFL Engine			
	Processor name	Server model numbers		One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)		Octa-Core (8)		
IBM	POWER7 <sup>4</sup>	770,780	8			■	■	■	All	120	
		750,755	4				■	■	All	100	
		PS700-702	2				■	■	All	70	
	POWER6	550,560,570,575,595	All		■				All	120	
		520, JS12, JS22, JS23, JS43	All		■				All	80	
		All	All		■				All	100	
	POWER5, POWER4	All	All		■				All	50	
	POWER5 QCM	All	All			■			All	120	
	System z10 <sup>1</sup>	All	All					■	All	100	
System z9, z990, S/390 <sup>1,2</sup>	All	All					■	All	100		
PowerPC 970	All	All		■				All	50		
PowerXCell™, Cell/B.E.™ 8i <sup>3</sup>	All	All	■					All	30		
HP / Intel®	Itanium® 1,2	All	All		■	■			All	100	
	PA-RISC	All	All		■				All	100	
Sun / Fujitsu	SPARC64 VI, VII	All	All		■	■			All	100	
	UltraSPARC IV	All	All		■				All	100	
	UltraSPARC T2	All	All			■	■	■	All	50	
	UltraSPARC T1	All	All			■	■	■	All	30	
Any	Any single-core	All	All	■					All	100	

\* Requirements as of Publish Date: Apr 13, 2010

# Processor Value Units (PVUs)

● Intel and AMD

Processor Technologies										
Processor Vendor	Processor Brand		Processor Type						Processor Model Number <sup>1</sup>	PVUs per Core
	Processor name	Maximum number of sockets per server	Cores per socket							
			One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)	Octi-Core (8)	12-Core (12)		
Intel®	Xeon® (Nehalem EX <sup>2</sup> )	> 4							7500 to 7599	120
		4			■	■	■		6500 to 6599	100
		2								70
	Xeon® (Nehalem EP)	2		■	■	■			3400 to 3599 5500 to 5699	70
	Xeon® (pre-Nehalem)	All		■	■	■			3000 to 3399 5000 to 5499 7000 to 7499	50
AMD	Opteron	All		■	■	■	■	■	All	50
Any	Any single-core	All	■						All	100

\* Requirements as of Publish Date: Apr 2, 2010

# Processor Value Units (PVUs)

- How license and server can affect the required PVUs

Processor Technologies									
Processor Vendor	Processor Brand		Processor Type					Processor Model Number <sup>1</sup>	PVUs per Core
	Processor name	Maximum number of sockets per server	Cores per socket						
			One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)	Octa-Core (8)		
	Xeon® (Nehalem EX <sup>2</sup> )	> 4						7500 to 7599	120
		4			■	■	■	6500 to 6599	100
		2							70

Install 2 quad core CPUs in a 8 way EX2 server = 960 PVUs (120 \* 8)

Install 2 quad core CPUs in a 4 way EX2 server = 800 PVUs (100 x 8)

Install 2 quad core CPUs in a 2 way EX2 server = 560 PVUs (70 \* 8)

Same CPU power, different licensing, vastly different price

# Processor Value Units (PVUs)

- The risk of moving from RISC
  - RISC to Intel moves almost always result in an uplift to PVUs required
    - 1 core AS400 = 100 PVUs
    - 1 x Quad Core Intel 55xx = 280 PVUs

# Processor Value Units (PVUs)

- Beware server upgrades!
  - Replacing aging servers can result in an uplift of PVUs required
    - Move from old Intel E5410 blade to E55xx blade
    - Old server  $4 * 50 = 200$  PVUs
    - New server  $4 * 70 = 280$  PVUs
  - Now, Nehalem and Westmere are much, much faster



## On to the free stuff

- All the current entitlements are listed at <http://tinyurl.com/yz4jooe>
- They can add up to considerable savings

# On to the free stuff

- Server entitlements for all licenses
  - Tivoli Directory Integrator (TDI)
    - Starts at \$20,000 if you were to purchase
    - Integrate AD and Domino for free
  - DB2
    - Steer clear of this one
    - NSFDB2 was “sunsetting” after 8.0.2



# On to the free stuff

- Additional server entitlements for collab
  - TDI
  - DB2
  - WebSphere Application Server
  - Domino Designer
  - Lotus Mobile Connect (LMC) client
    - You still need to purchase server PUVs

# On to the free stuff

- Additional server entitlements for Utility
  - TDI
  - DB2
  - WebSphere Application Server
  - Lotus Workflow (not Express)

# On to the free stuff

- All clients
  - Lotus Expeditor
  - Lotus Symphony
  - Quickr Entry
  - Sametime Entry
  - Lotus Traveler \*

# On to the free stuff

- Domino Enterprise CAL
  - Lotus Expeditor
  - Lotus Symphony
  - Quickr Entry
  - Sametime Entry
  - Lotus Traveler \*

# On to the free stuff

## ● Lotus Traveler \*

- Just like BES, Traveler needs at least 100 PVUs of Messaging Server
  - Don't install it on your mail server
  - Express and CEO users are exempt
    - Express, no DPAR's remember!

# On to the free stuff

## ● Sametime Entry

- You can only use the “embedded client” in Notes
- Chat/IM, presence awareness and chat logging only!
- No BlackBerry access. Period.
- There is now an upgrade SKU from Entry to Standard

## ● Put it on another Domino server

- There is no Domino license required for this
- It is gratis, but only to be used for Sametime



## Q and A

- Surely after that you have some questions, right?



# We are here to help – and cheap!

- For further information contact or to schedule services
  - Lisa Duke, [lisa.duke@simplified-tech.com](mailto:lisa.duke@simplified-tech.com) or 678 378 4278
  - Ernie Sutter, [ernie.sutter@simplified-tech.com](mailto: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 “End Of Life” as of April 2010, **R7 in April 2011**
- We also sell IBM x-Series servers and Lenovo PC's

