

# SAP NetWeaver 7.0 Installation: From Confused to Confident SDN Subscriptions Webinar Series



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## 1. SAP NetWeaver 7.0 Installation: From Confused to Confident

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## 2. SAP Development Subscription

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## 3. Questions & Answers

John and Mario



# SAP NetWeaver 7.0 Installation

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From Confused to Confident



# Overview

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- Audience
  - SAP NetWeaver Developers with little or no Basis experience
  - Basis beginners or experts
  - Newbies taking their first steps into SAP NetWeaver
  - Prospective or recent SDN Subscribers
- Goals and Objectives
  - Make a complicated process straightforward
  - Explore concepts to the level necessary for an SDN Sub. Installation
  - Note differences between an SDN Subscription and a Trial version
- Food for Thought
  - How can Developers can be more than the oxpecker on the rhino?



# My Background and Goals

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- Fixed cars and ran an award-winning repair shop for 18 years
- Made a good living for another 15 years writing ABAP and ABAP Objects
- But nothing tangible to show for all that design and programming effort
- Bought an SDN Subscription so I could own a body of work
- Very little Basis experience until now
  
- Move on to ABAP Web Dynpro
- Copy this career's work product into my Namespace
- Formalize my development methodology
- Be the best at my niche
- Be more than a necessary evil to clients
- Be able to bid fixed price - sell a product or at least a framework
- Keep up with fast-moving SAP
- Know just enough about the Portal, XI, MDM, etc.
- Have fun – Never be bored



# My Installation

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- The hardware I already had:
  - 2 x Athlon MP 2000+, 3 gb, 200 gb ATA, 6 x 10K rpm U320 SCSI
  - 32-bit Windows 2003 Server w/MaxDB
- My NetWeaver 7.0:
  - ABAP + Java, base Portal, no PI or MDM, SPS14
- Objects in my Namespace so far:
  - 8 Packages in a two-level hierarchy
  - 3 Classes
  - 50+ Data Dictionary and other Objects
  - No Applications yet...
- The new Server I just finished building:
  - 2 x 1.6 ghz Xeon, 8 gb, 5 x 320 gb 7200rpm SATA2
  - 64-bit Susi Linux Server
  - ABAP + Java; ABAP + Java, base Portal, no PI or MDM, SR3
  - Nothing transported in yet...



# Hardware Choices

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- Adapt what you have
  - Add Memory
  - Add Disks, RAID Arrays
- Buy or build a new Server
  - Plenty of space for Memory and Disks
- Laptop
  - TechEd Hands-ons are on Laptops and performance is OK
- Backup
  - File server or any other PC (disk-to-disk) is easiest
- 32-bit vs. 64-bit
  - Software is different at every layer (OS, Utilities, Application)
  - 32-bit Hardware can only access 3.5 or 4gb Memory
- Single-User–Single-Application Performance considerations
  - Not the same as for hundreds of Users doing varied work
  - One box



# Hardware Requirements

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- Memory
  - 8gb is best for ABAP+Java
  - As little as 2gb is OK for ABAP only
  - Fast disks and RAID help especially when you have too little Memory
- Disks
  - Size is not an issue
  - Some RAID types increase access speed and/or reliability
  - Software vs. Hardware RAID
  - Six: Boot (1), RAID 5 Database (2 - 4), RAID 1 Logs (5 & 6)
  - Five: Boot (1), RAID 1 Database (2 & 3), RAID 1 Logs (4 & 5)
  - Three: Boot (1), Database (2), Logs (3)
  - Two: Boot & Logs (1), Database (2)
  - Everything on one is slower but works (Laptop)
- Processor
  - Cheapest one will do
  - NetWeaver can use multiple CPUs
- Power Supply
  - Use a sizer application
  - Redundant if possible
  - Delayed-write requires redundant
- UPS
  - Get a big one. They're cheap





# Software Choices

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- Virtual vs. Straight
  - Xeon Processors support virtualization in hardware
  - Pre-installed systems save installation time
  - Makes sense if you're sharing hardware among unbalanced Applications
  - An extra level of complexity and potential performance issues
- Windows vs. Linux
  - Windows is easier and quicker but more expensive
    - 64-bit Windows Server is harder to find
    - Will Windows Home Server (cheap) work?
    - XP Works but SAP uses Server 2003 even on Laptops
    - Bill Gates is watching you...
  - Linux is more difficult and more work but cheaper
    - Install is much smoother than before
    - Control file editing is still required
    - Automatic updates are now available
    - Suse-Novell and Red Hat are supported
- MaxDB vs. Oracle vs. SQL Server
  - SDN Subscription license is for MaxDB
  - MaxDB requires less effort
  - SAP Says the DBMS is a commodity
- Network
  - Windows domains
  - Samba vs. ftp vs. ssh



# Pre-Installation Setup Procedure

- Ask for a Installation Key early
  - SDN Subscribers do not need to install Solution Manager – SAP hosts one for us
  - Allow a day or two to receive a key
- Don't apply for a License until you're sure the hardware is OK
  - If you change hardware you need to return your old license key
- Operating System Settings for NetWeaver
  - Special documentation for subscription users available in the package
  - Do them exactly as in the documentation
- Synchronize your clock to NIST (<http://tf.nist.gov/>) or whoever
- Java Development System and Runtime
  - Download and install the exact version and policy file SAP recommends
  - The SAP Installer only works with an older version of Java
  - Ignore post-installation prompts from Java to upgrade
  - Linux requires manual post-installation steps
- Download NW from service.sap.com or use DVDs and download only the latest SPs
  - Your SDN Subscription User ID Allows you to download the software without SolMan.
- SAPGUI
  - Download the latest Installation and the latest Patch
  - Install one on your Server for transports and other Basis work
  - Install one on your Workstation for Development work



# Installation Hints I

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- Accounts and User names
  - Use the default name if there is one
  - Let the Installer create Operating system users for you
  - Keep a list of them
- Passwords
  - You'll need to specify them in a dozen spots
  - Use the same one everywhere or you'll eventually get confused
  - Make your master Password acceptable to all Applications
    - At least eight characters
    - At least one upper case letter and one number
- Keep a record for next time
  - Take notes or mark up your printouts
  - Some Basis people shoot every screen they hit
  - Make or send me corrections to the SDN Installation Cheat Sheet



# Installation Hints II

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- Use common names so you don't have to change them
  - Host name: sapserv1 is better than intelPAB123
  - SAP System ID (SID): DEV is better than MYD
- "Local" Installation is less work
- Unicode vs. Code Pages
  - Unicode is required for certain new functionality
  - Unicode forces you to write better code
  - Converting a big system is difficult but this is a small fresh install
- Size Parameters
  - Standard installation default memory parameters are OK
  - Test drive memory parameters are set low so they fit small hardware
  - Double or quadruple the default DB and Log file sizes and quantities
  - It's much easier to make a big sparse database now
  - Running out of database space causes hard-to-diagnose errors.



# Post Installation Procedure

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- Smoke Test
  - Log on and off; Stop and Restart
  - Check the Database
  - Pat yourself on the back for getting this far
- Generate the ABAP Load
  - Runs for half a day and uses up lots of database space
  - You'll be sorry if you don't – everything will compile while you wait
- Lots of Small Steps – See Cheat Sheet
- Upgrade NetWeaver to the latest Service Pack Stack
- Hook Up the Online Documentation
  - Tricky but worth it
  - Or forget it and use [help.sap.com](http://help.sap.com)
- Configure the Correction and Transport System
- Copy Client "000" to "200"
- Apply for a license key.
  - SDN Subscribers may license up to 3 separate environments



# Development Environment Preparation

- Make a Developer Account for yourself
- Get a Developer Key for your Account
- Apply for a Namespace – Included in SDN Subscription
- Get your old Applications
  - Use Transaction “CG3Y” to download Cofiles and Data files (<6.20)
  - Use SAPLink to make Slinkees and Nuggets (>=6.20)
- Bring in SDN Objects, Book examples and your Applications
  - Upload or Copy-and-paste Reports and small stuff
  - Use SAPLink to import complex Objects
  - Use Transaction “STMS” to Transport in:
    - Book examples
    - Your CTS Cofiles and Data files
  - Copy or Rename into your Namespace
- Activate Internet Communication Framework Services
  - Necessary to be able to execute ABAP Web Dynpro Applications
- Build the Flight Database using Transaction “BC\_DATA\_GEN”



# SDN Subscription vs. Trial Versions

## ■ SDN Subscription

- It's a real Install in which you choose the version and parameter settings
- You become an SAP Customer with all the benefits
- You get an OSS Account with full privileges
- Protect your Applications by using your own Namespace
- Includes access to:
  - The latest NetWeaver versions as they come into general release
  - All recorded TechEd Sessions
  - Service Market Place (SMP)
  - Enterprise Services Workplace
- Premium Forum presence on SDN - Your questions are answered faster
- You own the Basis work – advantage or disadvantage?

## ■ Trial Versions or Sneak Previews

- No official support from SAP
- Search Blogs for solutions to problems
- Generic Developer User ID
- Non-standard, non-changeable SID
- Licensed for training only - no development, no demo...
- Limited time only – Must be reinstalled after expiration {is this true?}



# Next Steps

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- Get on a regular Backup schedule
  - Full system only after major changes
  - SAPLink top level Package daily
  - Copy changed .JARs daily
- Explore Web Services
- Clean up and productize Applications
- Convert Applications to ABAP Web Dynpro
- Write technical and marketing Documentation for Applications
- Contribute reusable Objects to SDN
- Take a Certification Exam
- Promote Product and Service offerings



- **Uninterrupted, hands-on access to develop and test add-on applications for NetWeaver**
- **The SAP NetWeaver Development Subscription offers**
  - Low cost, access to the SAP NetWeaver platform with a one year, development license
  - Choice of development method with NetWeaver ABAP, Java, and/or composite applications
  - Continuous learning presentations and demos to build skills in each of the NetWeaver platform components
  - Product support services to help get and keep the software running
  - Problem solving assistance that leverages the community of experts



Starter Kit

 **To learn more about the SAP NetWeaver Development Subscription, visit: [www.sdn.sap.com/irj/sdn/devsub](http://www.sdn.sap.com/irj/sdn/devsub)**



## SAP NetWeaver Installation resources:

- **SDN Subscriptions**

[www.sdn.sap.com/irj/sdn/subscriptions](http://www.sdn.sap.com/irj/sdn/subscriptions)

- **SAP NetWeaver Development Subscription**

[www.sdn.sap.com/irj/sdn/subscriptions/development](http://www.sdn.sap.com/irj/sdn/subscriptions/development)

- **SDN Subscription Wiki**

<https://wiki.sdn.sap.com/wiki/display/subscription>

- **SDN Subscription Forum**

<https://www.sdn.sap.com/irj/sdn/subscriptions>

- **Basis books with chapters about installation**

<http://www.sappressbooks.com/>



John Answers Your Questions Now

# Thank you!

Please take a moment and complete  
the evaluation