

## RE: Upgrading W2K DC to W2003

**Source:**

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.migration/2004-11/0259.html>

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**From:** Jack Wang [MSFT] ([jackwa\\_at\\_online.microsoft.com](mailto:jackwa_at_online.microsoft.com))

**Date:** 11/10/04

Date: Wed, 10 Nov 2004 01:07:17 GMT

You are welcome! I'm glad that the information is helpful. If you have any questions in the future, please don't hesitate to post in the newsgroup. Have a great day!

Sincerely,  
Jack Wang, MCSE 2000/2003, MCSA 2000/2003, MCDBA, MCSA  
Microsoft Online Partner Support

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| Thread-Topic: Upgrading W2K DC to W2003  
| thread-index: AcTFfO3CrCutRIMRR3KQ8jA2rYnojg==  
| X-WBNR-Posting-Host: 212.138.47.21  
| From: "=?Utf-8?B?Um9zaGFuIE1hdGhld3M=?=" <RoshanMathews@discussions.microsoft.com>  
| References: <ADED9B0B-1C3E-43FB-94AF-6B03F1E46947@microsoft.com>  
<21Y4U0TxEHA.3696@cpmsftngxa10.phx.gbl>  
| Subject: RE: Upgrading W2K DC to W2003  
| Date: Mon, 8 Nov 2004 02:23:02 -0800  
| Lines: 516  
| Message-ID: <BD307510-7D41-4841-B21C-EF1251815CE7@microsoft.com>  
| MIME-Version: 1.0  
| Content-Type: text/plain;  
| charset="Utf-8"  
| Content-Transfer-Encoding: 7bit  
| X-Newsreader: Microsoft CDO for Windows 2000  
| Content-Class: urn:content-classes:message  
| Importance: normal  
| Priority: normal

| X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.0  
| Newsgroups: microsoft.public.windows.server.migration  
| NNTP-Posting-Host: TK2MSFTNGXA03.phx.gbl 10.40.1.29  
| Path: cpmsftngxa10.phx.gbl!TK2MSFTNGXA03.phx.gbl  
| Xref: cpmsftngxa10.phx.gbl microsoft.public.windows.server.migration:15077  
| X-Tomcat-NG: microsoft.public.windows.server.migration

| Hi Jack,  
| Many thanks for your detailed info... it will help me...  
| Best regards, Roshan Mathews

| "Jack Wang [MSFT]" wrote:

| > Hi Roshan,  
| >  
| > Thank you for posting!  
| >  
| > Please refer to the following information for your questions.  
| >  
| > 1. You only need to run adprep on the schema operations master.  
| >  
| > 2. You may upgrade other DCs to Windows Server 2003 later.  
| >  
| > 3. After running the adprep commands, you need to verify that the  
| commands  
| > successfully ran on the schema operations master.  
| >  
| > To do so, please refer to the following steps.  
| >  
| > Overview: Upgrading Windows 2000 domain controllers to Windows Server  
| 2003  
| >

---

| >  
| > The Windows Server 2003 adprep command that you run from the \I386  
| folder  
| > of the Windows Server 2003 media prepares a Windows 2000 forest and its  
| > domains for the addition of Windows Server 2003 domain controllers. The  
| > Windows Server 2003 adprep /forestprep command adds the following  
| features:  
| >  
| >  
| > - Improved default security descriptors for object classes  
| >  
| > - New user and group attributes  
| >  
| > - New Schema objects and attributes like inetOrgPerson  
| >  
| >  
| > The adprep utility supports two command-line arguments:  
| >

|>  
|> adprep /forestprep: Runs forest upgrade operations.  
|> adprep /domainprep: Runs domain upgrade operations.  
|>  
|> The adprep /forestprep command is a one-time operation performed on the schema operation master (FSMO) of the forest. The forestprep operation must complete and replicate to the infrastructure master of each domain before you can run adprep /domainprep in that domain.  
|>  
|> The adprep /domainprep command is a one-time operation that you run on the infrastructure operations master domain controller of each domain in the forest that will host new or upgraded Windows Server 2003 domain controllers. The adprep /domainprep command verifies that the changes from forestprep have replicated in the domain partition and then makes its own changes to the domain partition and group policies in the Sysvol share.  
|>  
|> You cannot perform either of the following actions unless the /forestprep and the /domainprep operations have completed and replicated to all the domain controllers in that domain:  
|>  
|> – Upgrade the Windows 2000 domain controllers to Windows Server 2003 domain controllers by using Winnt32.exe. Note: You can upgrade the Windows 2000 member servers and computers to Windows Server 2003 member computers whenever you want.  
|>  
|> – Promote new Windows Server 2003 domain controllers into the domain by using Dcpromo.exe.  
|>  
|>  
|> The domain that hosts the schema operations master is the only domain where you must run both adprep /forestprep and adprep /domainprep. In all other domains, you only have to run adprep /domainprep.  
|>  
|> The adprep /forestprep and the adprep /domainprep commands do not add attributes to the global catalog partial attribute set or cause a full synchronization of the global catalog. The RTM version of adprep /domainprep does cause a full sync of the \Policies folder in the Sysvol tree. Even if you run forestprep and domainprep several times, completed

|> operations are performed only one time.  
|>  
|> After the changes from adprep /forestprep and adprep /domainprep completely  
|> replicate, you can upgrade the Windows 2000 domain controllers to Windows  
|> Server 2003 by running Winnt32.exe from the \I386 folder of the Windows  
|> Server 2003 media. Also, you can add new Windows Server 2003 domain  
|> controllers to the domain by using Dcpromo.exe.  
|>  
|>  
|> Upgrading the forest with the adprep /forestprep command  
|>  
|> To prepare a Windows 2000 forest and domains to accept Windows Server  
2003  
|> domain controllers, follow these steps first in a lab environment, then  
in  
|> a production environment:  
|>  
|> 1. Make sure that you have completed all the operations in the "Forest  
|> Inventory" phase with special attention to the following items:  
|>  
|> a. You have created system state backups.  
|>  
|> b. All the Windows 2000 domain controllers in the forest have  
installed  
|> all the appropriate hotfixes and service packs.  
|>  
|> c. End-to-end replication of Active Directory is occurring throughout  
the  
|> forest  
|>  
|> d. FRS replicates the file system policy correctly throughout each  
domain.  
|>  
|> 2. Log on to the console of the schema operations master with an  
|> account that is a member of the Schema Admins security group.  
|>  
|> 3. Verify that the schema FSMO has performed inbound replication of the  
|> schema partition by typing the following at a Windows NT command prompt:  
|>  
|> "repadmin /showreps" (without the quotation marks) (repadmin is  
installed  
|> by the Support\Tools folder of Active Directory.)  
|>  
|> 4. Early Microsoft documentation recommends that you isolate the schema  
|> operations master on a private network before you run adprep  
/forestprep.  
|> Real-world experience suggests that this step is not necessary and may  
|> cause a schema operations master to reject schema changes when it is  
|> restarted on a private network. If you want to isolate schema additions

|> that were made by adprep, Microsoft recommends that you temporarily disable  
|> outbound replication of Active Directory with the repadmin command-line  
|> utility. To do this, following these steps:  
|>  
|> a. Click "Start", click "Run", type "cmd" (without the quotation marks),  
|> and then click "OK".  
|>  
|> b. Type the following, and then press ENTER:  
|>  
|> "repadmin /options +DISABLE\_OUTBOUND\_REPL" (without the quotation marks)  
|>  
|> 5. Run adprep on the schema operations master. To do so, click "Start",  
|> click "Run", type "cmd" (without the quotation marks), and then click  
|> "OK". On the schema operations master, type the following command  
|>  
|> "<X:\I386>adprep /forestprep" (without the quotation marks) where  
|> <X:\I386> is the path of the Windows Server 2003 installation media.  
This  
|> command runs the forest-wide schema upgrade.  
|>  
|> Note Events with event ID 1153 that are logged in the Directory Service  
|> event log, such as the sample that follows, can be ignored:  
|>  
|>  
|> Event Type : Error  
|> Event Source : NTDS General  
|> Event Category: Internal Processing  
|> Event ID : 1153  
|> Date: MM/DD/YYYY  
|> Time: HH:MM:SS AM|PM  
|> User : Everyone Computer : <some DC>  
|> Description: Class identifier 655562 (class name  
|> msWMI-MergeablePolicyTemplate) has an invalid superclass 655560.  
|> Inheritance ignored.  
|>  
|> 6. Verify that the adprep /forestprep command successfully ran on the  
|> schema operations master. To do so, from the console of the schema  
|> operations master, verify the following items:  
|>  
|> - The adprep /forestprep command completed without error.  
|>  
|> - The CN=Windows2003Update object is written under  
|> CN=ForestUpdates,CN=Configuration,DC=<forest\_root\_domain>. Record the  
value  
|> of the Revision attribute.  
|>  
|> - (Optional) The schema version incremented to version 30. To do so,  
see

|> the ObjectVersion attribute under  
|> CN=Schema,CN=Configuration,DC=<forest\_root\_domain>.If adprep  
/forestprep  
|> does not run, verify the following items:  
|>  
|> – The fully qualified path for Adprep.exe located in the \I386 folder  
of  
|> the installation media was specified when adprep ran. To do so, type  
the  
|> following command:  
|>  
|> "<x>:\i386\adprep /forestprep" (without the quotation marks) where  
<x>  
|> is the drive that hosts the installation media.  
|>  
|> – The logged on user who runs adprep has membership to the Schema  
Admins  
|> security group. To verify this, use the whoami /all command.  
|>  
|> – If adprep still does not work, view the Adprep.log file in the  
|> %systemroot%\System32\Debug\Adprep\Logs\<Latest\_log> folder.  
|>  
|> 7. If you disabled outbound replication on the schema operations master  
in  
|> step 4, enable replication so that the schema changes that were made by  
|> adprep /forestprep can propagate. To do this, following these steps:  
|>  
|> a. Click "Start", click "Run", type "cmd" (without the quotation  
marks),  
|> and then click "OK".  
|>  
|> b. Type the following, and then press ENTER:  
|>  
|> "repadmin /options –DISABLE\_OUTBOUND\_REPL" (without the quotation  
marks)  
|>  
|> 8. Verify that the adprep /forestprep changes have replicated on all  
the  
|> domain controllers in the forest. It is useful to monitor the following  
|> attributes:  
|>  
|> a. Incrementing the schema version  
|>  
|> b. The CN=Windows2003Update,  
|> CN=ForestUpdates,CN=Configuration,DC=<forest\_root\_domain> or  
|> CN=Operations,CN=DomainUpdates,CN=System,DC=<forest\_root\_domain> and  
the  
|> operations GUIDs under it have replicated in.  
|>  
|> c. Search for new schema classes, objects, attributes, or other  
changes

|> that adprep /forestprep adds, such as inetOrgPerson. View the Sch<XX>.ldf files (where <XX> is a number between 14 and 30) in the %systemroot%\System32 folder to determine what objects and attributes there should be. For example, inetOrgPerson is defined in Sch18.ldf.

|>

|> 9. Look for mangled LDAPDisplayNames.

|>

|> If Exchange 2000 was installed before you ran the Windows Server 2003 adprep /forestprep command, see the "How to Identify Mangled Name Attributes" section of the following article in the Microsoft Knowledge Base:

|>

|> KBLink:314649.KB.[LN]: Windows Server 2003 adprep /forestprep command causes mangled attributes in Windows 2000 forests that contain Exchange 2000 serversIf you find mangled names, go to Scenario 3 of the "Exchange 2000 in Windows 2000 Forests" section of the same article.

|>

|> 10. Log on to the console of the schema operations master with an account that is a member of the Schema Admins group security group of the forest that hosts the schema operations master.

|>

|> Upgrading the domain with the adprep /domainprep command

|>

|> Run adprep /domainprep after the /forestprep changes fully replicate to the infrastructure master domain controller in each domain that will host Windows Server 2003 domain controllers. To do so, follow these steps:

|>

|> 1. Identify the infrastructure master domain controller in the domain you are upgrading, and then log on with an account that is a member of the Domain Admins security group in the domain you are upgrading.

Note:

|> The enterprise administrator may not be a member of the Domain Admins security group in child domains of the forest.

|>

|> 2. Run adprep /domainprep on the Infrastructure master. To do so, click Start, click Run, type "cmd" (without the quotation marks), and then on the Infrastructure master type the following command:

|>

|> "X:\I386\adprep /domainprep" (without the quotation marks) where X:\I386\ is the path of the Windows Server 2003 installation media. This command runs domain-wide changes in the target domain.

|>

|> Note: The adprep /domainprep command modifies files permissions in the  
|> Sysvol share. These modifications cause a full synchronization of files  
in  
|> that directory tree.  
|>  
|> 3. Verify that domainprep completed successfully. To do so, verify the  
|> following items:  
|>  
|> – The adprep /domainprep command completed without error.  
|>  
|> – The CN=Windows2003Update,CN=DomainUpdates,CN=System,DC=<dn path of  
|> domain you are upgrading> exists If adprep /domainprep does not run,  
verify  
|> the following items:  
|>  
|> – The logged on user who runs adprep has membership to the Domain  
Admins  
|> security group in the domain being you are upgrading. To do so, use the  
|> whoami /all command.  
|>  
|> – The fully qualified path for Adprep.exe located in the \I386  
directory  
|> of the installation media was specified when you ran adprep. To do so,  
at a  
|> command prompt type the following command:  
|>  
|> "<x>:\i386\adprep /forestprep" (without the quotation marks) where  
<x>  
|> is the drive that hosts the installation media.  
|>  
|> – If adprep still does not work, view the Adprep.log file in the  
|> %systemroot%\System32\Debug\Adprep\Logs\<Latest\_log> folder.  
|>  
|> 4. Verify that the adprep /domainprep changes have replicated. To do  
so,  
|> for the remaining domain controllers in the domain, verify the  
following  
|> items:  
|>  
|> – The CN=Windows2003Update,CN=DomainUpdates,CN=System,DC=<dn path of  
|> domain you are upgrading> object exists and the value for the Revision  
|> attribute matches the value of the same attribute on the infrastructure  
|> master of the domain.  
|>  
|> – (Optional) Look for objects, attributes or access control list (ACL)  
|> changes that adprep /domainprep added.Repeat steps 1–4 on the  
|> infrastructure master of the remaining domains in bulk or as you add or  
|> upgrade DC's in those domains to Windows Server 2003. Now you can  
promote  
|> new Windows Server 2003 computers into the forest by using DCPROMO. Or,  
you

|> can upgrade existing Windows 2000 domain controllers to Windows Server  
2003  
|> by using WINNT32.EXE.  
|>  
|> Upgrading Windows 2000 domain controllers by using Winnt32.exe  
|> -----  
|>  
|> After the changes from /forestprep and /domainprep completely replicate  
and  
|> you have made a decision about security interoperability with  
|> earlier-version clients, you can upgrade Windows 2000 domain  
controllers to  
|> Windows Server 2003 and add new Windows Server 2003 domain controllers  
to  
|> the domain.  
|>  
|> The following computers must be among the first domain controllers that  
run  
|> Windows Server 2003 in the forest in each domain:  
|> - The domain naming master in the forest so that you can create default  
|> DNS program partitions.  
|> - The primary domain controller of the forest root domain so that the  
|> enterprise-wide security principals that Windows Server 2003's  
|> forestprep adds become visible in the ACL editor.  
|> - The primary domain controller in each non-root domain so that you can  
|> create new domain-specific Windows 2003 security principals.  
|>  
|>  
|> To do so, use WINNT32 to upgrade existing domain controllers that host  
the  
|> operational role you want. Or, transfer the role to a newly-promoted  
|> Windows Server 2003 domain controller. Perform the following steps for  
each  
|> Windows 2000 domain controller that you upgrade to Windows Server 2003  
with  
|> WINNT32 and for each Windows Server 2003 workgroup or member computer  
that  
|> you promote:  
|>  
|> 1. Before you use WINNT32 to upgrade Windows 2000 member computers and  
|> domain controllers, remove Windows 2000 Administration Tools. To do  
so,  
|> use the Add/Remove Programs tool in Control Panel. (Windows 2000  
|> upgrades only.)  
|>  
|> 2. Install any hotfix files or other fixes that either Microsoft or the  
|> administrator determines is important.  
|>  
|> 3. Check each domain controller for possible upgrade issues. To do so,  
run  
|> the following command from the \I386 folder of the installation media:

|>  
|> "winnt32.exe /checkupgradeonly" (without the quotation marks)Resolve  
any  
|> issues that the compatibility check identifies.  
|>  
|> 4. Run WINNT32.EXE from the \I386 folder of the installation media, and  
|> the restart the upgraded 2003 domain controller.  
|>  
|> 5. Lower the security settings for earlier-version clients as required.  
|>  
|> If Windows NT 4.0 clients do not have NT 4.0 SP6 or Windows 95 clients  
do  
|> not have the directory service client installed, disable SMB Service  
|> signing on the Default Domain Controllers policy on the Domain  
Controllers  
|> organizational unit, and then link this policy to all organizational  
units  
|> that host domain controllers.  
|>  
|> Computer Configuration\Windows Settings\Security Settings\Local  
|> Policies\Security Options\Microsoft Network Server: Digitally sign  
|> communications (always)  
|>  
|> 6. Verify the health of the upgrade using the following data points:  
|>  
|> – The upgrade completed successfully.  
|>  
|> – The hotfixes that you added to the installation successfully  
replaced  
|> the original binaries.  
|>  
|> – Inbound and outbound replication of Active Directory is occurring  
for  
|> all naming contexts held by the domain controller.  
|>  
|> – The Netlogon and Sysvol shares exist.  
|>  
|> – The event log indicates that the domain controller and its services  
are  
|> healthy.  
|>  
|> Note: You may receive the following event message after you upgrade:  
|>  
|>  
|>  
|>  
|> Event Type: Error  
|> Event Source: NTDS Backup  
|> Event Category: Backup  
|> Event ID: 1913

|> Date: <Date>  
|> Time: HH:MM:SSAM|PM  
|> User: N/A  
|> Computer: <computername>  
|> Description: Internal error: The Active Directory backup and restore  
|> operation encountered an unexpected error. Backup or restore will not  
|> succeed until this is corrected. You can safely ignore this event  
message.  
|>  
|> 7. Install the Windows Server 2003 Administration Tools (Windows 2000  
|> upgrades and Windows Server 2003 non-domain controllers only).  
|> Adminpak.msi is in the \I386 folder of the Windows Server 2003  
CD-ROM.  
|> Windows Server 2003 media contains updated support tools in the  
|> Support\Tools\Suptools.msi file. Make sure that you reinstall this  
file.  
|>  
|> 8. Make new backups of at least the first two Windows 2000 domain  
|> controllers that you upgraded to Windows Server 2003 in each domain  
in  
|> the forest. Locate the backups of the Windows 2000 computers that  
you  
|> upgraded to Windows Server 2003 in locked storage so you do not  
|> accidentally use them to restore a domain controller that now runs  
|> Windows Server 2003.  
|>  
|> 9. (Optional) Perform an offline defragmentation of the Active  
Directory  
|> database on the domain controllers that you upgraded to Windows Server  
2003  
|> after the single instance store (SIS) has completed (Windows 2000  
upgrades  
|> only).  
|>  
|> The SIS reviews existing permissions on objects stored in Active  
Directory,  
|> and then applies a more efficient security descriptor on those objects.  
The  
|> SIS starts automatically (identified by event 1953 in the directory  
service  
|> event log) when upgraded domain controllers first start the Windows  
Server  
|> 2003 operating system. You benefit from the improved security  
descriptor  
|> store only when you log an event ID 1966 event message in the directory  
|> service event log:  
|>  
|>  
|> Event Type: Information  
|> Event Source: NTDS SDPROP  
|> Event Category: Internal Processing

|> Event ID: 1966  
|> Date: MM/DD/YYYY  
|> Time: HH:MM:SS AM|PM  
|> User: NT AUTHORITY\ANONYMOUS LOGON  
|> Computer: <computername>  
|> Description: The security descriptor propagator has completed a full propagation pass.  
|> Allocated space (MB):  
|> XX Free space (MB): XX  
|>  
|> This may have increased free space in the Active Directory database.  
|> User Action: Consider defragmenting the database offline to reclaim the  
|> free space that may be available in the Active Directory database. For more  
|> information, see Help and Support Center at  
|> <http://go.microsoft.com/fwlink/events.asp>. This event message indicates  
|> that the single instance store operation has completed and serves as a  
|> queues the administrator to perform of offline defragmentation of the  
|> Ntds.dit using NTDSUTIL.EXE.  
|>  
|> The offline defragmentation can reduce the size of a Windows 2000  
Ntds.dit  
|> file by up to 40%, improves Active Directory performance, and updates the  
|> pages in the database for more efficient storage of Link Valued  
attributes.  
|>  
|>  
|> 10. Investigate the DLT Server Service. Windows Server 2003 domain  
|> controllers disable the DLT Server service on fresh and upgrade  
installs.  
|> If Windows 2000 or Windows XP clients in your organization use the DLT  
|> Server service, use Group Policy to enable the DLT Server service on  
new or  
|> upgraded Windows Server 2003 domain controllers. Otherwise,  
incrementally  
|> delete distributed link tracking objects from Active Directory.  
|>  
|> 11. Configure the best practice organizational unit structure.  
Microsoft  
|> recommends that administrators actively deploy the best practice  
|> organizational unit structure in all the Active Directory domains, and  
|> after they upgrade or deploy Windows Server 2003 domain controllers in  
|> Windows Domain mode, redirect the default containers that  
earlier-version  
|> APIs use to create users, computers and groups to an organizational  
unit  
|> container that the administrator specifies.  
|>  
|> 12. Repeat steps 1 through 10 as required for each new or upgraded

Windows

|> Server 2003 domain controller in the forest and step 11 (Best Practice  
|> organizational unit structure) for each Active Directory domain.  
|>  
|> For more information, please refer to the following article.  
|>  
|> 325379 How to upgrade Windows 2000 domain controllers to Windows Server  
2003

|> <http://support.microsoft.com/?id=325379>

|>  
|> Hope this helps!

|>  
|> Sincerely,  
|> Jack Wang, MCSE 2000/2003, MCSA 2000/2003, MCDBA, MCSD  
|> Microsoft Online Partner Support

|>  
|> Get Secure! – [www.microsoft.com/security](http://www.microsoft.com/security)

|>  
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|> -----  
|> | Thread-Topic: Upgrading W2K DC to W2003  
|> | thread-index: AcTFA4vUuiv4jKV9SrqdTjy9+SBSHg==  
|> | X-WBNR-Posting-Host: 212.138.47.11  
|> | From: =?Utf-8?B?Um9zaGFu?= <Roshan@discussions.microsoft.com>  
|> | Subject: Upgrading W2K DC to W2003  
|> | Date: Sun, 7 Nov 2004 11:54:09 -0800  
|> | Lines: 14  
|> | Message-ID: <ADED9B0B-1C3E-43FB-94AF-6B03F1E46947@microsoft.com>  
|> | MIME-Version: 1.0  
|> | Content-Type: text/plain;  
|> | charset="Utf-8"  
|> | Content-Transfer-Encoding: 7bit  
|> | X-Newsreader: Microsoft CDO for Windows 2000  
|> | Content-Class: urn:content-classes:message  
|> | Importance: normal  
|> | Priority: normal  
|> | X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.0  
|> | Newsgroups: microsoft.public.windows.server.migration  
|> | NNTP-Posting-Host: TK2MSFTNGXA03.phx.gbl 10.40.1.29  
|> | Path: cpmsftngxa10.phx.gbl!TK2MSFTNGXA03.phx.gbl  
|> | Xref: cpmsftngxa10.phx.gbl

microsoft.public.windows.server.migration:15054

|> | X-Tomcat-NG: microsoft.public.windows.server.migration

|> |

|> | Good Day to All,  
|> |  
|> | i have 5 DC (W2k) in three sites under one domain. i am planning to  
|> | upgrade  
|> | the them to W2003. Kindly advice :  
|> | 1. Do i need to run the adprep on the Main server(OperationsMaster)  
|> | in  
|> | one  
|> | site or do i need to do it on all my DCs.  
|> | 2. Does all the other DC need to upgraded to windows 2003 immedaitely  
|> | or  
|> | can  
|> | i do it later stage.  
|> | 3. After running the adprep on the Main server, how long can i wait  
|> | before  
|> | starting the upgrade process. If i wait does it affect any process or  
|> | updation or anything...  
|> |  
|> | Best Regards,  
|> | Roshan  
|> |  
|> |  
|> |  
|> |  
|