UPGRADATION FROM MSSQL2000 TO MSSQL 2005

(without java)

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Software Requirements:

- BASIS support packages.
- MSSQL server 2005 database software
- SAP tools for MS SQL server.(http://service.sap.com/msplatforms ---->SQL server.

Required SAP notes:

- Note 799058 to obtain the latest information about the installation of and to upgrade of MSSQL server 2005.
- Note 600027 for Conversion of collation SQL_Latini_general_CP850_BIN2.
- Note 924288 for information about how to perform 6.xx based installations on SQL Server 2005.

Prerequisites for the upgrade:

- SAP only supports SQL server 2005 only on WINDOWS 2003 with SP1 or higher.
- Make sure that you have a backup of the SQL server database before you perform upgrade.
- Make sure that you don't log on with Windows Terminal Services (WTS) from any other desktop or the MSCS node.
- Make sure that you have the required BASIS support packages ,
  minimum patch level is
  Release 6.20 --------- 57
  Release 6.40 --------- 15
- It is important that you apply all the required patches before using SQL server 2005 productively.

- When installing or upgrading to MSSQL 2005 make sure that u have enough disk space on the system drive for:
    1. .NET frame work for 64 bit in addition to the 32 bit .NET framework, also the 64 bit .NET framework to be installed.
    2. SQL server client tools.
    3. SQL server instance.
    4. Temporary space for installation.

  The required disk space depends on the type on SQL server already installed or to be installed. It also depends on the system. For a 32 bit system you need up to 2GB of free space on the system drive, and more for a 64 bit machine.

- It is recommended to the run any new installation of a SQL server 2005 instance from the special VB script provided by SAP. The script is named as SQL4SAP.vbs and is located on the SQL server 2005 DVD.

  NOTE :SQL4SAP.vbs does not support Microsoft cluster service (MSCS)

- SAP does not support any other upgrade method than that is mentioned here. To perform upgrade you need to download SAP tools for MS SQL server.

- Make sure that the *Microsoft distributed transaction coordinator* (MSDTC) service is running before you start the upgrade.

- Conversion of collation SQL_Latini_general_CP850_BIN2

- After installing the support packages for release 6.20, following steps are to be performed,
    1. Stop the SAP system.
    2. Start the MSSQL server management studio and open a new query to your SAP database.
    3. Execute the following SQL statement:

       setuser 'sid'
       exec sap_use_var_MAX

       where SID is the SAPSID of your system in LOWER CASE.

       If you don’t execute this command there will be database inconsistencies at login.

Upgrade Steps:

- Login to your Windows with SIDADM user and to the SAP system with DDIC to apply support packages for BASIS.
- Go to the transaction SPAM, make sure that you have updated your SPAM first to the highest patch level.
- Apply your support packages up to 57 on release 6.20 and up to 15 on release 6.40
- Shutdown the SAP system.
- Dropthe stored procedures in the database in the database with thestored procedure "*sap_droproc* ". Run the following the statements in the database with the query analyzer:

  Use <sid>
  go
  Setuser '<sid>'
  go
  exec sap_droproc
  go

  this takes some time depending on the speed of the server. To check how many stored procedures are dropped, run the statement

  select count(*) from sysobjects where name like 'Y%'

  if your database has many such stored procedures , you may have to schedule down time for the system.

- Make sure that the server and the database collation are set to *SQL_Latin1_ general_CP850_BIN2.*

- Execute the installation procedures described by Microsoft for SQL server 2005. This allows you to upgrade one or more SQL server 2000 instances.

1. If you have as standard SAP system, log on to the host as a local administrator.
2. Insert the SQL Server 2005 RDBMS DVD in your DVD drive or mount it locally.
3. Change to the platform-specific folder and choose *Enterprise Edition* › *Servers* .
4. Start the installation program with setup.exe.
5. Accept the licensing terms and conditions, and choose *Next.*
6. Choose *Install* and, if required, *Next* .
7. Check your system configuration and, if required, set up the required configuration.
8. Choose *Next* .

9. Enter your personal information, the product key,and choose *Next*.
10. Select one of the following options:
    For a standard SAP system, select:
    SQL Server Database Services
    Workstation components, Books Online and development tools.
11. Choose *Advanced.*
12. Expand *Database Services* and deselect *Replication* .
    . Expand *Client Component* s and, if available, deselect *Business Intelligence Development Studio*.
    We recommend that you deselect these features as they are not required for an SAP system.
13. Choose *Next.*
14. For a standard SAP system, select the instance you want to upgrade, and choose *Next*.
    SAP recommends to install a *Default* instance.
15. Select the "SQL Server Database Service X.XX.XXXX", and choose *Next*.
16. The authentication mode specifies the security used when connecting to SQL Server during the database upgrade.
    Select *Windows Authentication Mode.*
    If you select *SQL Server Authentication,* you must enter the SQL Server login and password.
    Choose next
17. The setup validates the connectivity and analyzes the upgrade. The status information is displayed in a pop-up window.
18. Standard configuration**:**
    a. Select one of the following options:
    Use the built -in System account for each service and select *Local System* or *Network Service.*
    Use a domain user account. Enter the user name and password.
    b. For a named instance, you must also select *SQL Browser.*
    c. Choose *Next.*
19. Leave the selection unchanged, and choose *Next*.
20. The list shows SQL server components to be upgraded to the new SQL Server release. Choose *Install*.
21. You can see the log files if you click on *Setup finished* under *Status*. When the setup process has finished, choose *Next*.
22. Choose *Finish*.
23. When you have finished the installation, check that the *Named Pipes* and *TCP/IP* protocol in the SQL Server Configuration Manager are enabled. If required, enable them as follows
    a. Choose *All Programs* › *Microsoft SQL Server 2005* › *Configuration Tools* › *SQL Server Configuration Manage* r.
    b. Expand *SQL Server 2005 Network Configuration* and select one of the following options:
    For a default instance, select *Protocols for MSSQLServer*
    For a named instance, select *Protocols for <SAPSID>*
    c. In the right-hand pane, under *Protocol Name* , right-click *Named Pipes* and *TCP/IP*, and choose *Enable*.
24. Restart SQL Server.

- Use the SAP tools for SQL server 2005 which should be present on the central instance. Run *sapinst.exe* , and choose "Upgrade to MS SQL 2005".This program runs the post upgrade steps that are required for SAP ABAP products that are running on SQL server 2005.

- Start the SAP system.

- Execute the following commands in SQL server 2005 management studio:

  use <SID> -- where <SID> is your SAP database
  go
  EXEC sp_updatestats
  go

  This procedure take some time to replace the old SQL server 2000 index statistics to SQL server 2005 statistics. You can run this while the SAP system is online.

  FOR FAQ'S AND TROUBLE SHOOTING REFER **SAP NOTE 799058**