**APPLIES TO:**

Support Package Deployment

**SUMMARY**

This article explains how to apply the support package in the SAP System and in the Landscape.

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**CREATED ON:**

1st November 2011.

## SUPPORT PACKAGES (SPAM)

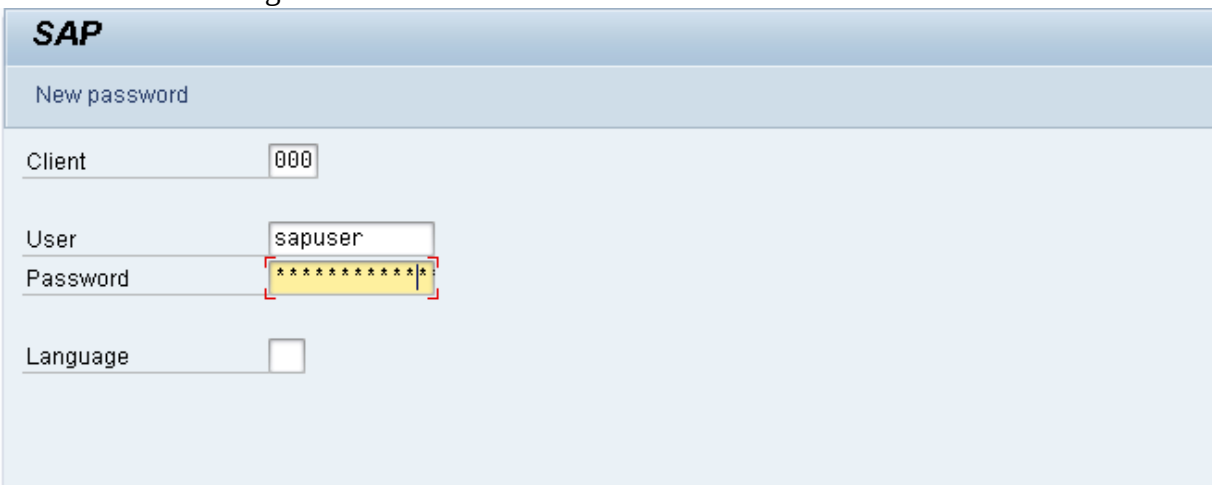
Support Packages are applied to the system for the following reasons

1. When ever there is a bug/security issue SAP releases a note (or) a patch (or) package (or) support stacks.
2. Note /patch is a small correction to the programs without any keys (Capable of modifying programs) which is applied through Transaction Code “SNOTE”.
3. Notes/Patches are grouped as packages and packages are grouped as support stack.
4. Patches can be applied during an OS/DB/R3 Upgrade .They can also be applied for maintaining the systems as per SAP maintenance schedule.

**PRE-REQUISITES:**

The following pre-requisites needs to be checked before applying support packages

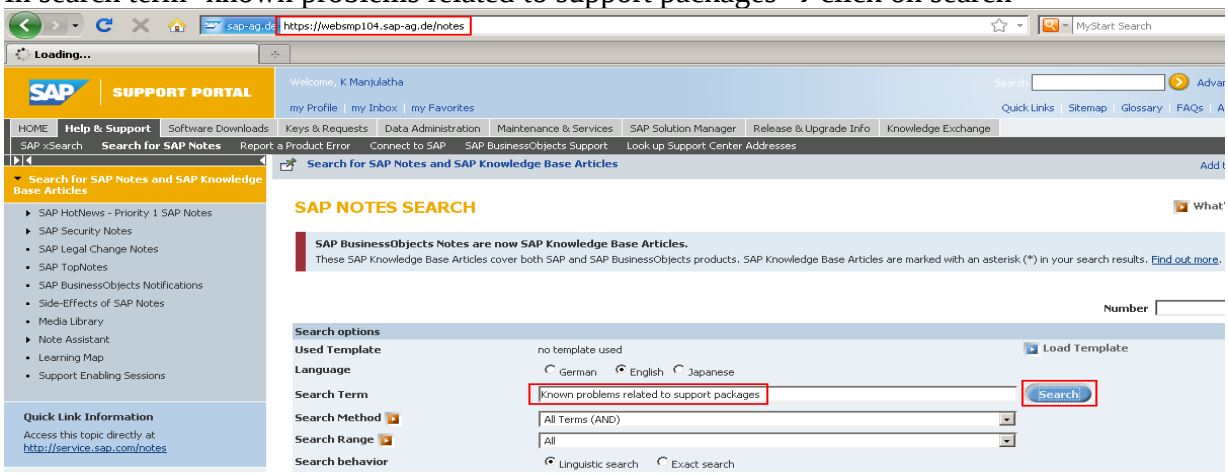
- Login to ‘000’ client with user like DDIC



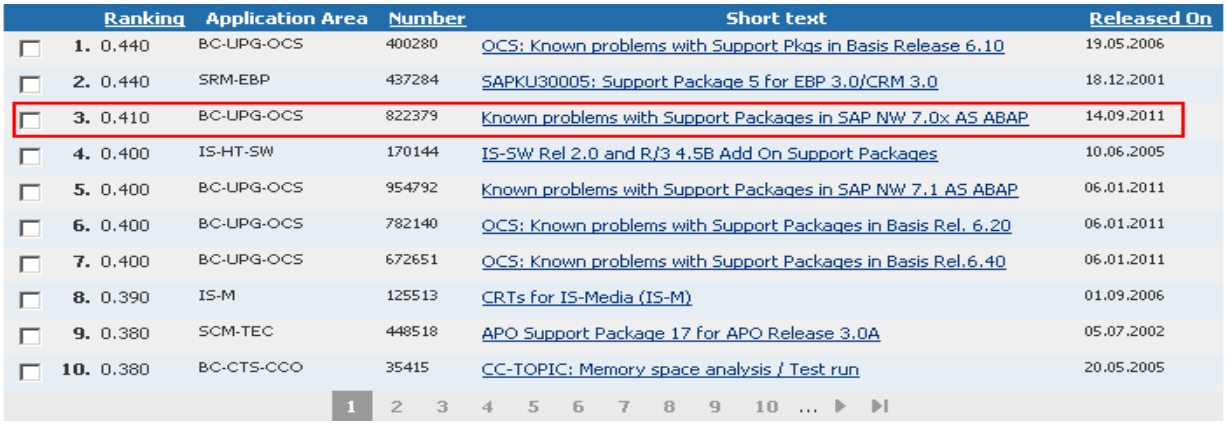

- Download the composite note from SAP Market Place (www.service.sap.com/notes ) with search criteria “Known problems related to support packages” version 620/640/700/710/720 (822379).

  Navigate to the URL www.service.sap.com/notes

In search term 'known problems related to support packages'→click on search




Select the '822379' note and click on download



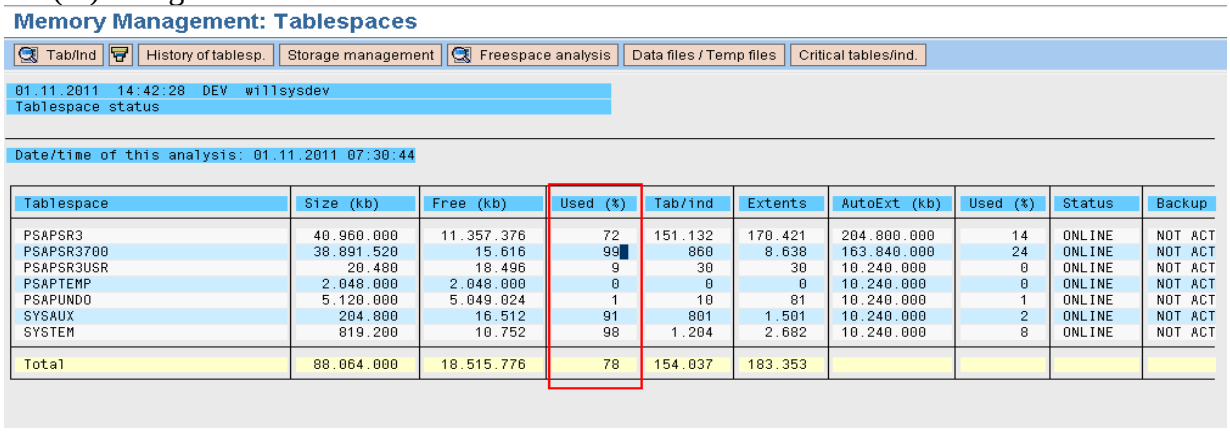
| | Ranking | Application Area | Number | Short text | Released On |
|---|---|---|---|---|---|
| 1. | 0.440 | BC-UPG-OCS | 400280 | OCS: Known problems with Support Pkgs in Basis Release 6.10 | 19.05.2006 |
| 2. | 0.440 | SRM-EBP | 437284 | SAPKU30005: Support Package 5 for EBP 3.0/CRM 3.0 | 18.12.2001 |
| 3. | 0.410 | BC-UPG-OCS | 822379 | Known problems with Support Packages in SAP NW 7.0x AS ABAP | 14.09.2011 |
| 4. | 0.400 | IS-HT-SW | 170144 | IS-SW Rel 2.0 and R/3 4.5B Add On Support Packages | 10.06.2005 |
| 5. | 0.400 | BC-UPG-OCS | 954792 | Known problems with Support Packages in SAP NW 7.1 AS ABAP | 06.01.2011 |
| 6. | 0.400 | BC-UPG-OCS | 782140 | OCS: Known problems with Support Packages in Basis Rel. 6.20 | 06.01.2011 |
| 7. | 0.400 | BC-UPG-OCS | 672651 | OCS: Known problems with Support Packages in Basis Rel.6.40 | 06.01.2011 |
| 8. | 0.390 | IS-M | 125513 | CRTs for IS-Media (IS-M) | 01.09.2006 |
| 9. | 0.380 | SCM-TEC | 448518 | APO Support Package 17 for APO Release 3.0A | 05.07.2002 |
| 10. | 0.380 | BC-CTS-CCO | 35415 | CC-TOPIC: Memory space analysis / Test run | 20.05.2005 |

1 2 3 4 5 6 7 8 9 10 ...

- Ensure that we have enough space in the database

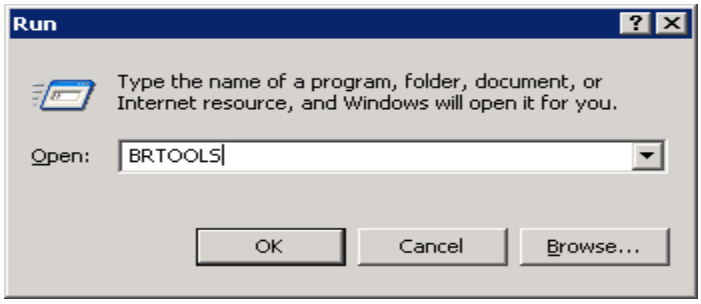
Execute "DB02" check the size of each table space and ensure that each one below 90%

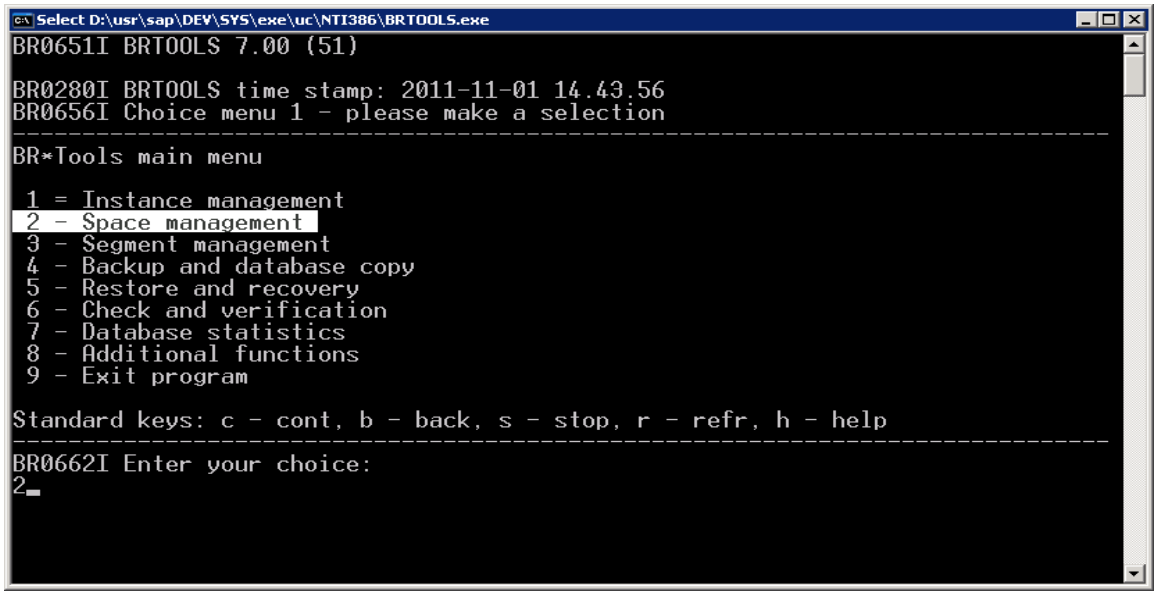
(or) Using BRTOOLS→ 2→ 7→ 1→ c→ c→ c

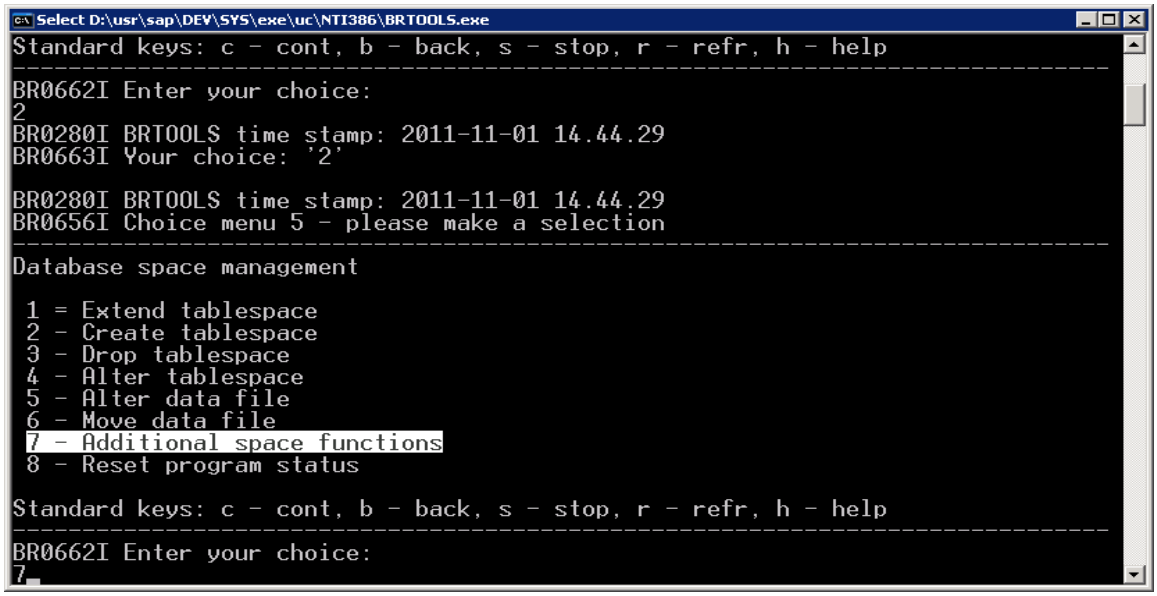


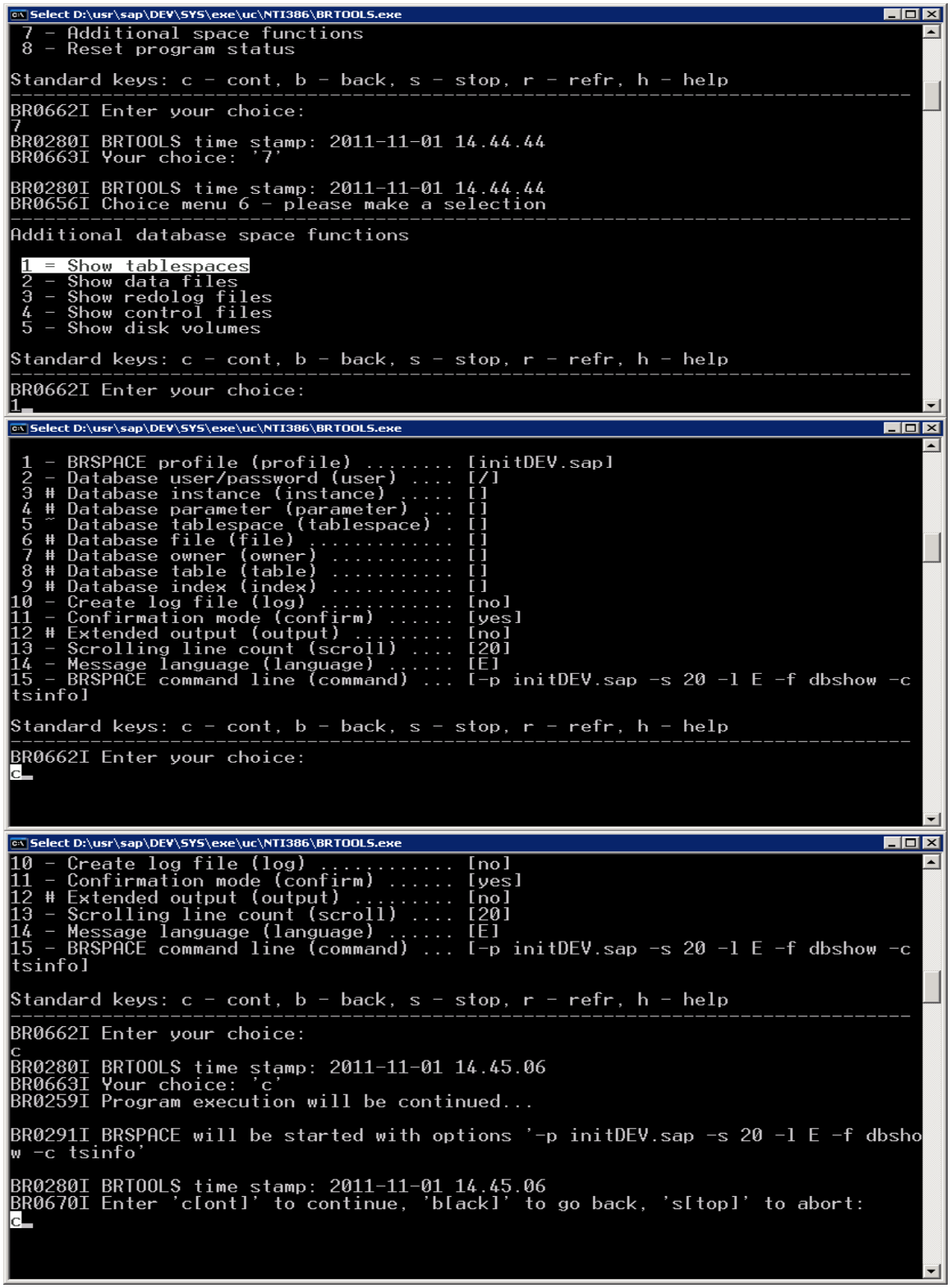

| Tablespace | Size (kb) | Free (kb) | Used (%) | Tab/ind | Extents | AutoExt (kb) | Used (%) | Status | Backup |
|---|---|---|---|---|---|---|---|---|---|
| PSAPSR3 | 40.960.000 | 11.357.376 | 72 | 151.132 | 170.421 | 204.800.000 | 14 | ONLINE | NOT ACT |
| PSAPSR3700 | 38.891.520 | 15.616 | 99 | 860 | 8.638 | 163.840.000 | 24 | ONLINE | NOT ACT |
| PSAPSR3USR | 20.480 | 18.496 | 9 | 30 | 30 | 10.240.000 | 0 | ONLINE | NOT ACT |
| PSAPTEMP | 2.048.000 | 2.048.000 | 0 | 0 | 0 | 10.240.000 | 0 | ONLINE | NOT ACT |
| PSAPUNDO | 5.120.000 | 5.049.024 | 1 | 10 | 81 | 10.240.000 | 1 | ONLINE | NOT ACT |
| SYSAUX | 204.800 | 16.512 | 91 | 801 | 1.501 | 10.240.000 | 2 | ONLINE | NOT ACT |
| SYSTEM | 819.200 | 10.752 | 98 | 1.204 | 2.682 | 10.240.000 | 8 | ONLINE | NOT ACT |
| Total | 88.064.000 | 18.515.776 | 78 | 154.037 | 183.353 | | | | |

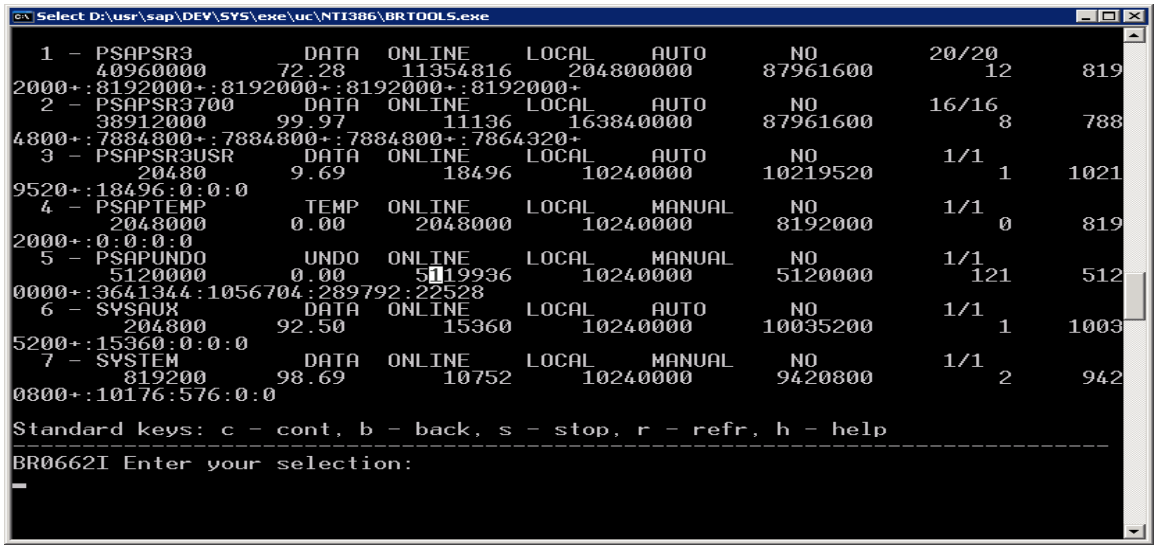
To check in the OS Level execute brtools 2→7→1→c→c→c→


Run
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:
BRTOOLS
OK
Cancel
Browse...


Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
BR0651I BRTOOLS 7.00 (51)
BR0280I BRTOOLS time stamp: 2011-11-01 14.43.56
BR0656I Choice menu 1 - please make a selection
BR*Tools main menu
1 = Instance management
2 - Space management
3 - Segment management
4 - Backup and database copy
5 - Restore and recovery
6 - Check and verification
7 - Database statistics
8 - Additional functions
9 - Exit program
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
2

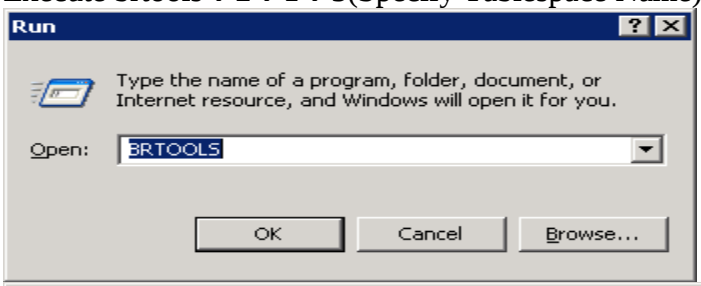

Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
2
BR0280I BRTOOLS time stamp: 2011-11-01 14.44.29
BR0663I Your choice: '2'
BR0280I BRTOOLS time stamp: 2011-11-01 14.44.29
BR0656I Choice menu 5 - please make a selection
Database space management
1 = Extend tablespace
2 - Create tablespace
3 - Drop tablespace
4 - Alter tablespace
5 - Alter data file
6 - Move data file
7 - Additional space functions
8 - Reset program status
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
7

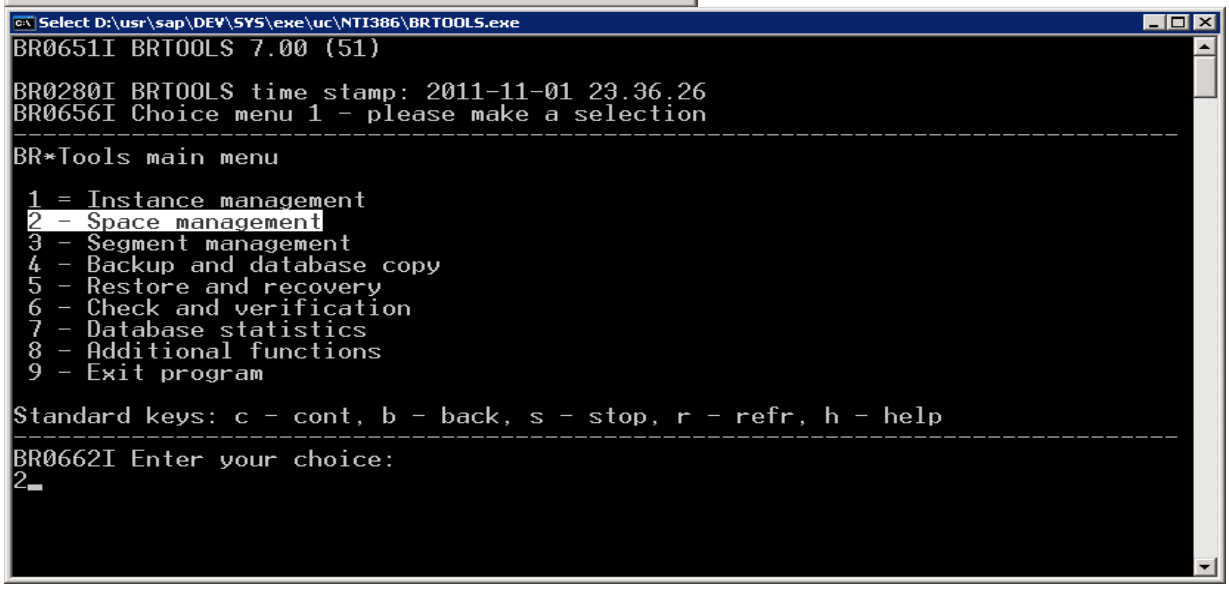

Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
7 - Additional space functions
8 - Reset program status
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
7
BR0280I BRTOOLS time stamp: 2011-11-01 14.44.44
BR0663I Your choice: '7'
BR0280I BRTOOLS time stamp: 2011-11-01 14.44.44
BR0656I Choice menu 6 - please make a selection
Additional database space functions
1 = Show tablespaces
2 - Show data files
3 - Show redolog files
4 - Show control files
5 - Show disk volumes
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
1
Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
1 - BRSPACE profile (profile) ..... [initDEV.sap]
2 - Database user/password (user) .... [/]
3 # Database instance (instance) ..... []
4 # Database parameter (parameter) ... []
5 # Database tablespace (tablespace) . []
6 # Database file (file) ............. []
7 # Database owner (owner) ........... []
8 # Database table (table) ........... []
9 # Database index (index) ........... []
10 - Create log file (log) ............ [no]
11 - Confirmation mode (confirm) ..... [yes]
12 # Extended output (output) ........ [no]
13 - Scrolling line count (scroll) .... [20]
14 - Message language (language) ..... [E]
15 - BRSPACE command line (command) ... [-p initDEV.sap -s 20 -l E -f dbshow -c tsinfo]
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
c
Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
10 - Create log file (log) ..... [no]
11 - Confirmation mode (confirm) ..... [yes]
12 # Extended output (output) ..... [no]
13 - Scrolling line count (scroll) .... [20]
14 - Message language (language) ..... [E]
15 - BRSPACE command line (command) ... [-p initDEV.sap -s 20 -l E -f dbshow -c tsinfo]
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
c
BR0280I BRTOOLS time stamp: 2011-11-01 14.45.06
BR0663I Your choice: 'c'
BR0259I Program execution will be continued...
BR0291I BRSPACE will be started with options '-p initDEV.sap -s 20 -l E -f dbshow -c tsinfo'
BR0280I BRTOOLS time stamp: 2011-11-01 14.45.06
BR0670I Enter 'c[ont]' to continue, 'b[ack]' to go back, 's[top]' to abort:
c

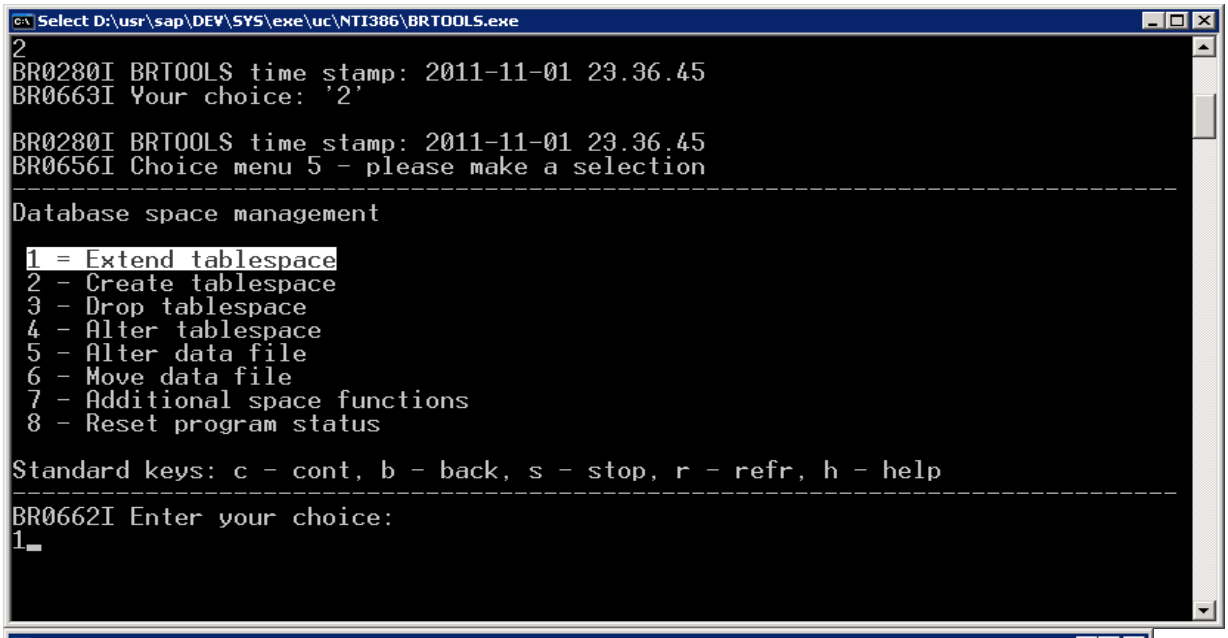


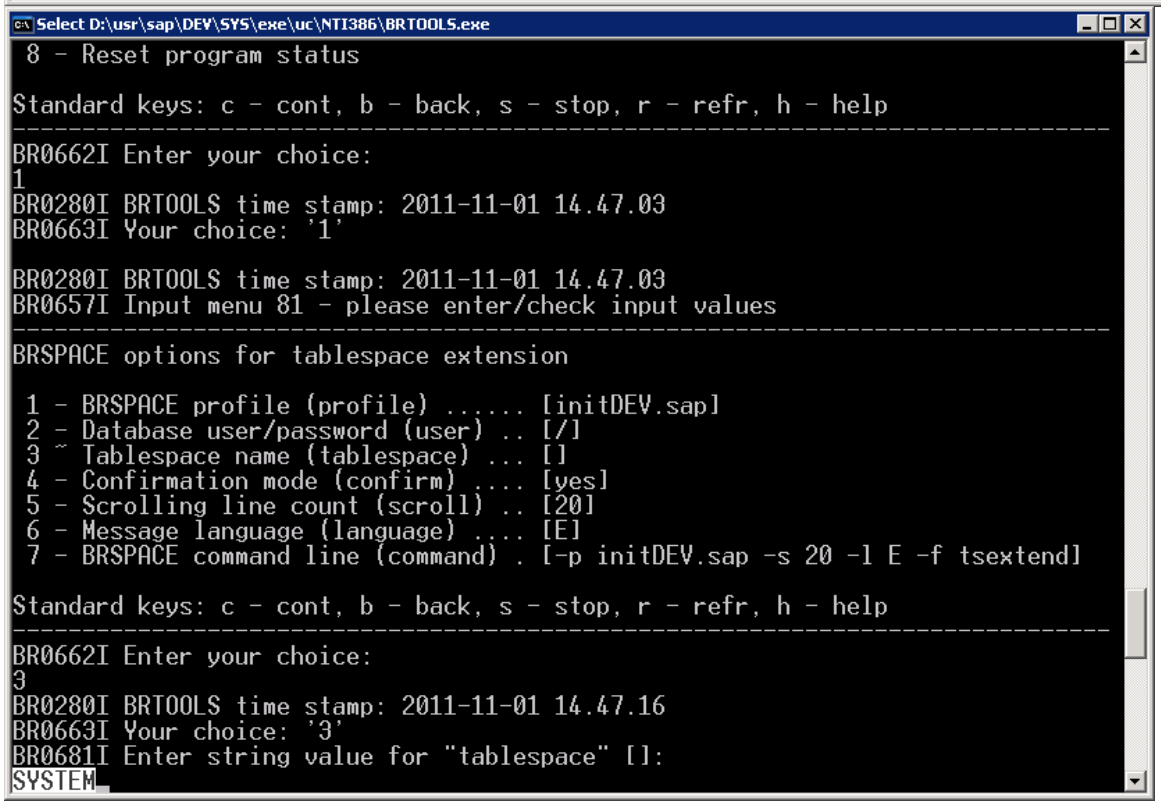

Increase all the Tablespaces which are above 90%.

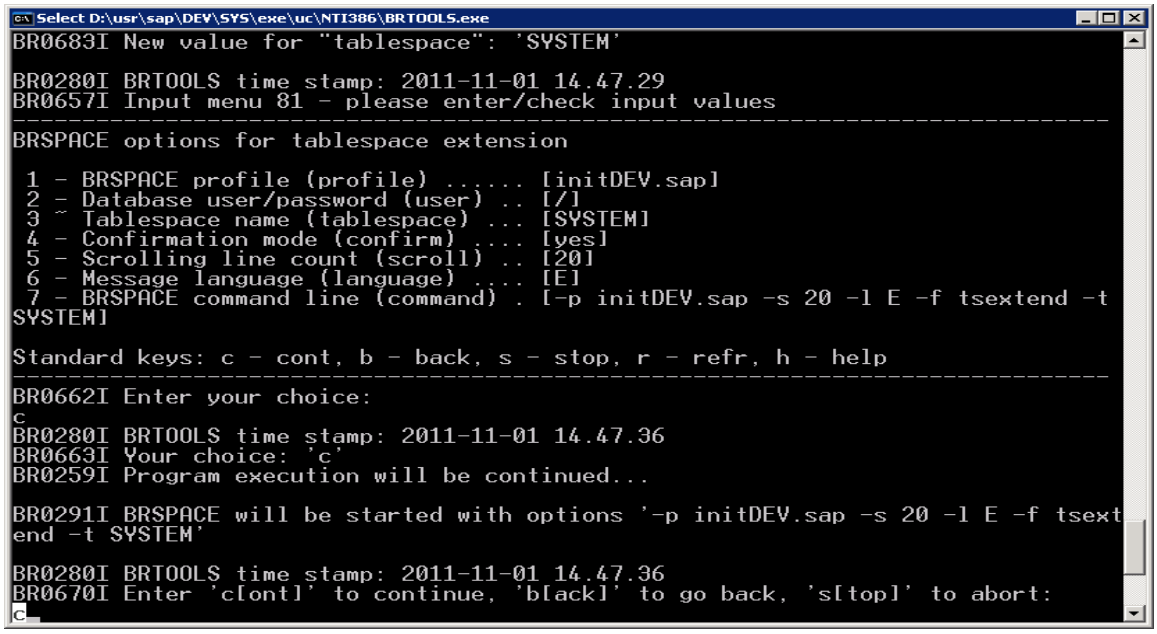
Execute brtools→2→1→3(Specify Tablespace Name)→c→c→c

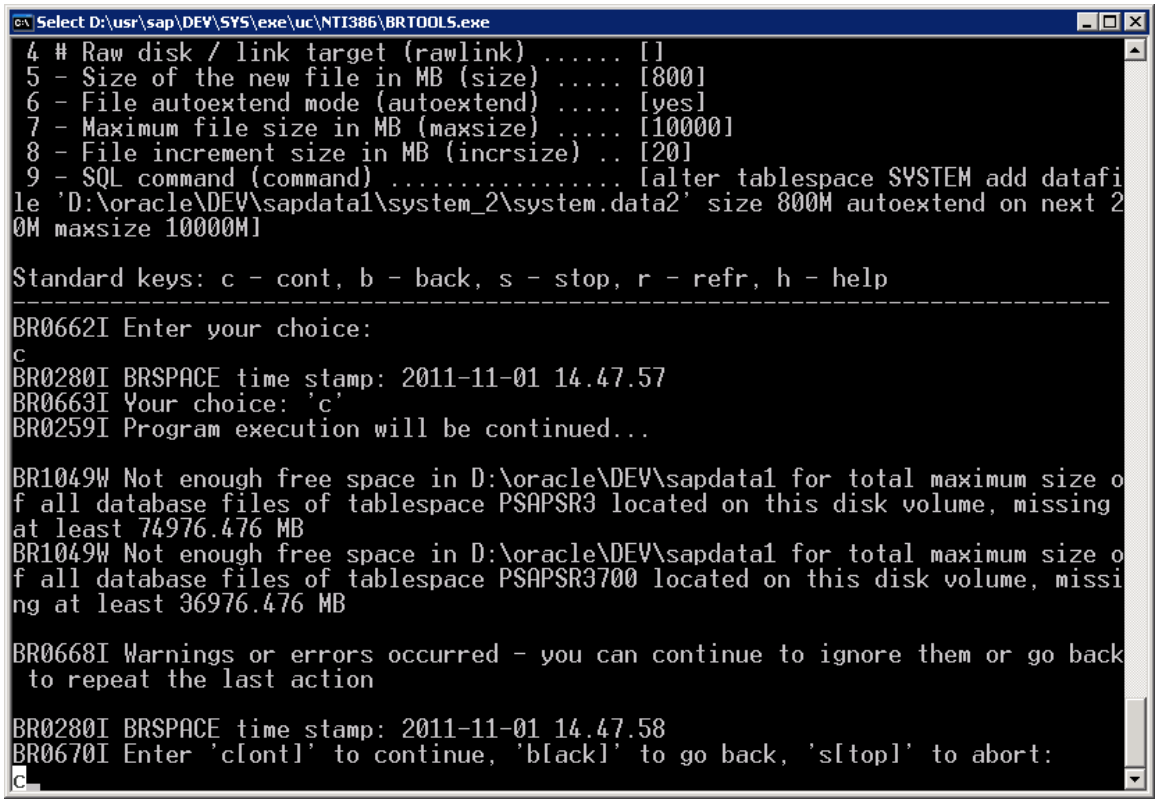


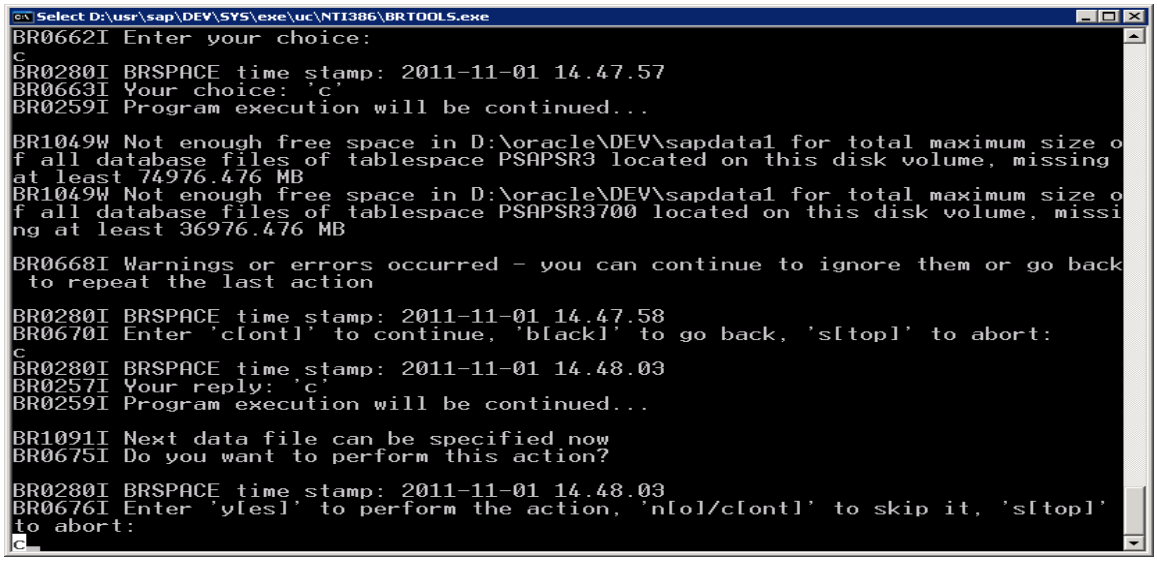



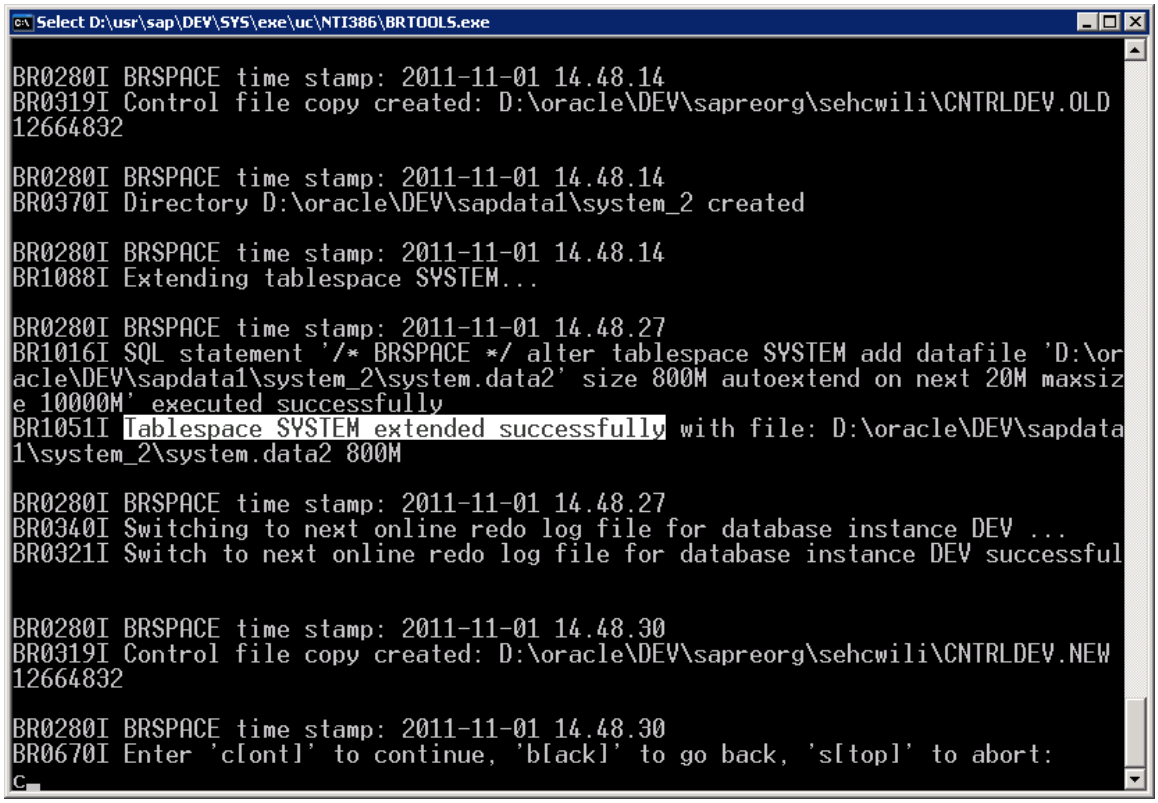

Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
2
BR0280I BRTOOLS time stamp: 2011-11-01 23.36.45
BR0663I Your choice: '2'
BR0280I BRTOOLS time stamp: 2011-11-01 23.36.45
BR0656I Choice menu 5 - please make a selection
Database space management
1 = Extend tablespace
2 - Create tablespace
3 - Drop tablespace
4 - Alter tablespace
5 - Alter data file
6 - Move data file
7 - Additional space functions
8 - Reset program status
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
1


Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
8 - Reset program status
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
1
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.03
BR0663I Your choice: '1'
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.03
BR0657I Input menu 81 - please enter/check input values
BRSPACE options for tablespace extension
1 - BRSPACE profile (profile) ..... [initDEV.sap]
2 - Database user/password (user) .. [/]
3 - Tablespace name (tablespace) ... []
4 - Confirmation mode (confirm) .... [yes]
5 - Scrolling line count (scroll) .. [20]
6 - Message language (language) .... [E]
7 - BRSPACE command line (command) . [-p initDEV.sap -s 20 -l E -f tsextend]
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
3
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.16
BR0663I Your choice: '3'
BR0681I Enter string value for "tablespace" []:
SYSTEM

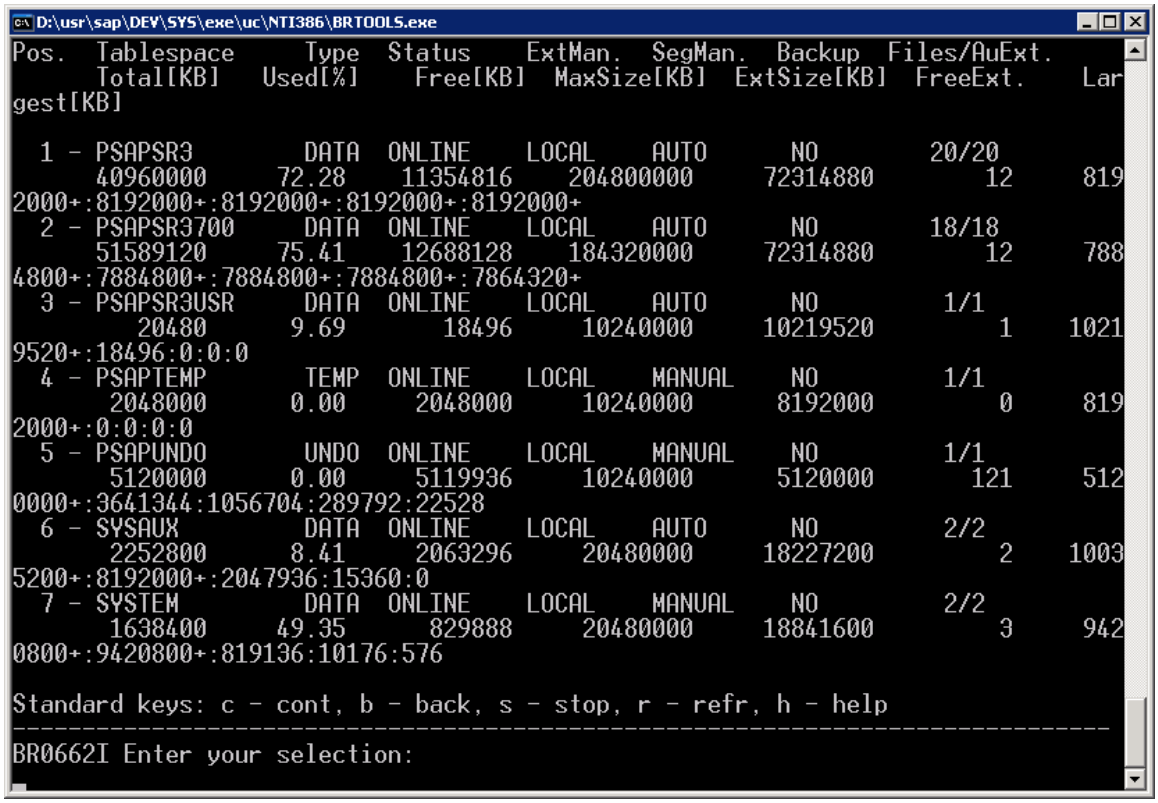

Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
BR0683I New value for "tablespace": 'SYSTEM'
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.29
BR0657I Input menu 81 - please enter/check input values
BRSPACE options for tablespace extension
1 - BRSPACE profile (profile) ..... [initDEV.sap]
2 - Database user/password (user) .. [/]
3 - Tablespace name (tablespace) ... [SYSTEM]
4 - Confirmation mode (confirm) .... [yes]
5 - Scrolling line count (scroll) .. [20]
6 - Message language (language) .... [E]
7 - BRSPACE command line (command) . [-p initDEV.sap -s 20 -l E -f tsextend -t SYSTEM]
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
c
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.36
BR0663I Your choice: 'c'
BR0259I Program execution will be continued...
BR0291I BRSPACE will be started with options '-p initDEV.sap -s 20 -l E -f tsextend -t SYSTEM'
BR0280I BRTOOLS time stamp: 2011-11-01 14.47.36
BR0670I Enter 'c[ont]' to continue, 'b[ack]' to go back, 's[top]' to abort:
c


Select D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
4 # Raw disk / link target (rawlink) ..... []
5 - Size of the new file in MB (size) ..... [800]
6 - File autoextend mode (autoextend) ..... [yes]
7 - Maximum file size in MB (maxsize) ..... [10000]
8 - File increment size in MB (incrsize) .. [20]
9 - SQL command (command) ..... [alter tablespace SYSTEM add datafile 'D:\oracle\DEV\sapdata1\system_2\system.data2' size 800M autoextend on next 20M maxsize 10000M]
Standard keys: c - cont, b - back, s - stop, r - refr, h - help
BR0662I Enter your choice:
c
BR0280I BRSPACE time stamp: 2011-11-01 14.47.57
BR0663I Your choice: 'c'
BR0259I Program execution will be continued...
BR1049W Not enough free space in D:\oracle\DEV\sapdata1 for total maximum size of all database files of tablespace PSAPSR3 located on this disk volume, missing at least 74976.476 MB
BR1049W Not enough free space in D:\oracle\DEV\sapdata1 for total maximum size of all database files of tablespace PSAPSR3700 located on this disk volume, missing at least 36976.476 MB
BR0668I Warnings or errors occurred - you can continue to ignore them or go back to repeat the last action
BR0280I BRSPACE time stamp: 2011-11-01 14.47.58
BR0670I Enter 'c[ont]' to continue, 'b[ack]' to go back, 's[top]' to abort:
c



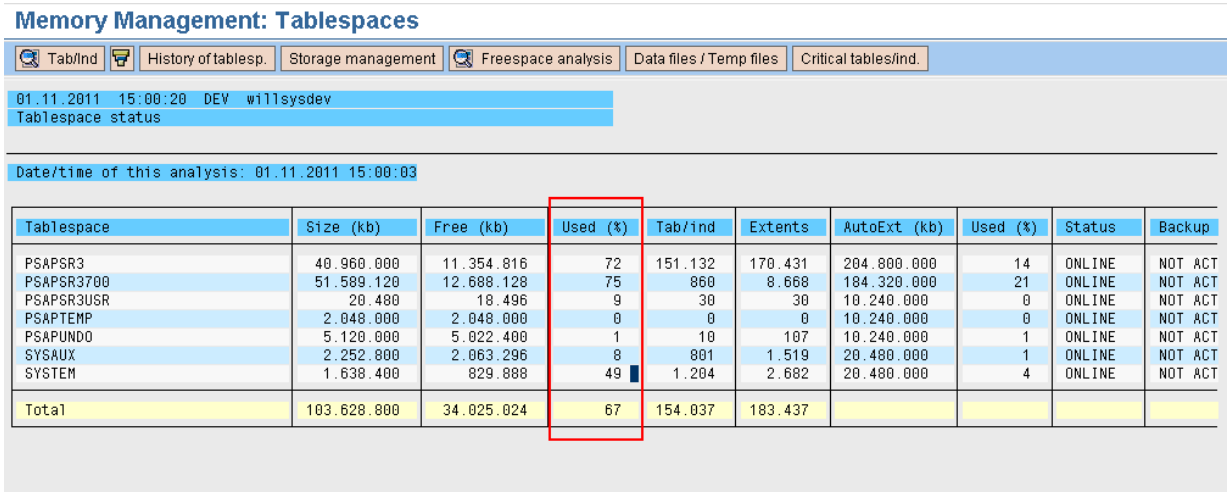

Like that increase the size to all the tables which are more than 90%



```
D:\usr\sap\DEV\SYS\exe\uc\NTI386\BRTOOLS.exe
Pos.  Tablespace     Type  Status    ExtMan.  SegMan.  Backup  Files/AuExt.
      Total[KB]   Used[%]    Free[KB]  MaxSize[KB]  ExtSize[KB]  FreeExt.    Lar
gest[KB]

  1 - PSAPSR3        DATA  ONLINE    LOCAL    AUTO      NO        20/20
      40960000     72.28    11354816    204800000     72314880        12     819
2000+:8192000+:8192000+:8192000+:8192000+
  2 - PSAPSR3700     DATA  ONLINE    LOCAL    AUTO      NO        18/18
      51589120     75.41    12688128    184320000     72314880        12     788
4800+:7884800+:7884800+:7884800+:7864320+
  3 - PSAPSR3USR     DATA  ONLINE    LOCAL    AUTO      NO         1/1
         20480      9.69       18496     10240000     10219520         1    1021
9520+:18496:0:0:0
  4 - PSAPTEMP       TEMP  ONLINE    LOCAL    MANUAL    NO         1/1
       2048000      0.00     2048000     10240000      8192000         0     819
2000+:0:0:0:0
  5 - PSAPUNDO       UNDO  ONLINE    LOCAL    MANUAL    NO         1/1
       5120000      0.00     5119936     10240000      5120000       121     512
0000+:3641344:1056704:289792:22528
  6 - SYSAUX         DATA  ONLINE    LOCAL    AUTO      NO         2/2
       2252800      8.41     2063296     20480000     18227200         2    1003
5200+:8192000+:2047936:15360:0
  7 - SYSTEM         DATA  ONLINE    LOCAL    MANUAL    NO         2/2
       1638400     49.35      829888     20480000     18841600         3     942
0800+:9420800+:819136:10176:576

Standard keys: c - cont, b - back, s - stop, r - refr, h - help
--------------------------------------------------------------------------------
BR0662I Enter your selection:
```



**Memory Management: Tablespaces**

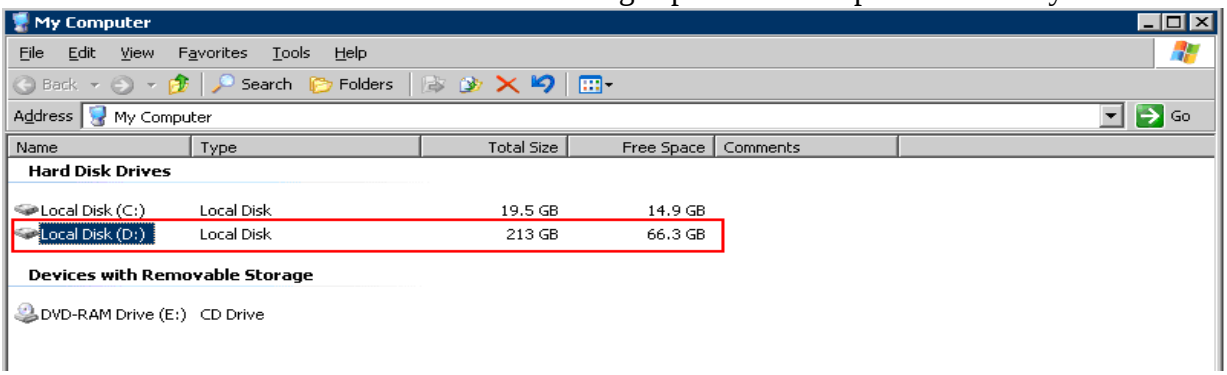
Tab/Ind | History of tablesp. | Storage management | Freespace analysis | Data files / Temp files | Critical tables/ind.

01.11.2011 15:00:20 DEV willsysdev
Tablespace status

Date/time of this analysis: 01.11.2011 15:00:03

| Tablespace | Size (kb) | Free (kb) | Used (%) | Tab/ind | Extents | AutoExt (kb) | Used (%) | Status | Backup |
|---|---|---|---|---|---|---|---|---|---|
| PSAPSR3 | 40.960.000 | 11.354.816 | 72 | 151.132 | 170.431 | 204.800.000 | 14 | ONLINE | NOT ACT |
| PSAPSR3700 | 51.589.120 | 12.688.128 | 75 | 860 | 8.668 | 184.320.000 | 21 | ONLINE | NOT ACT |
| PSAPSR3USR | 20.480 | 18.496 | 9 | 30 | 30 | 10.240.000 | 0 | ONLINE | NOT ACT |
| PSAPTEMP | 2.048.000 | 2.048.000 | 0 | 0 | 0 | 10.240.000 | 0 | ONLINE | NOT ACT |
| PSAPUNDO | 5.120.000 | 5.022.400 | 1 | 10 | 107 | 10.240.000 | 1 | ONLINE | NOT ACT |
| SYSAUX | 2.252.800 | 2.063.296 | 8 | 801 | 1.519 | 20.480.000 | 1 | ONLINE | NOT ACT |
| SYSTEM | 1.638.400 | 829.888 | 49 | 1.204 | 2.682 | 20.480.000 | 4 | ONLINE | NOT ACT |
| Total | 103.628.800 | 34.025.024 | 67 | 154.037 | 183.437 | | | | |

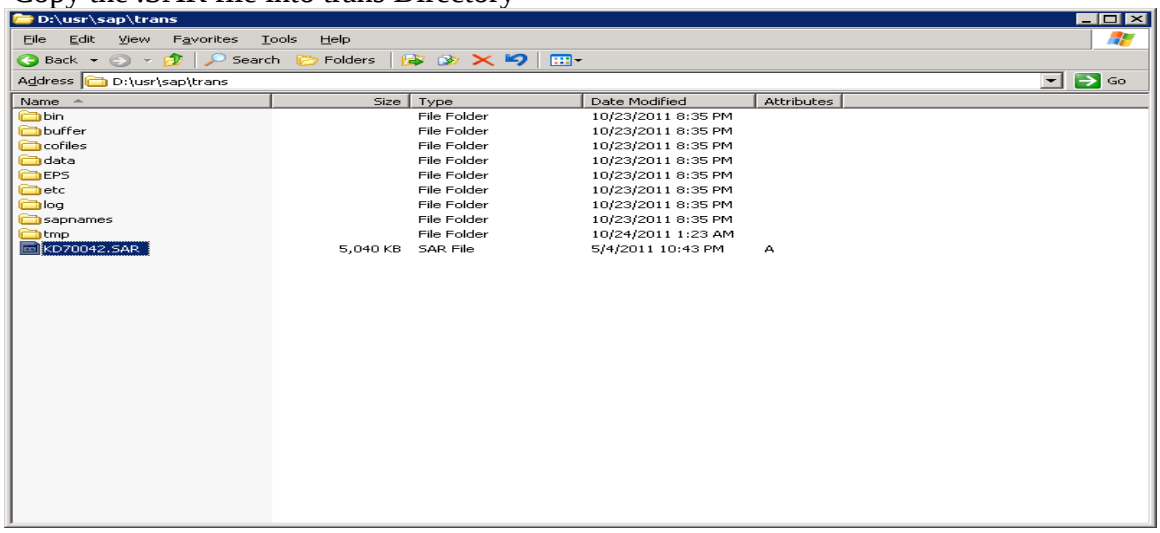
- Ensure that we have enough space in /usr/sap/trans directory.



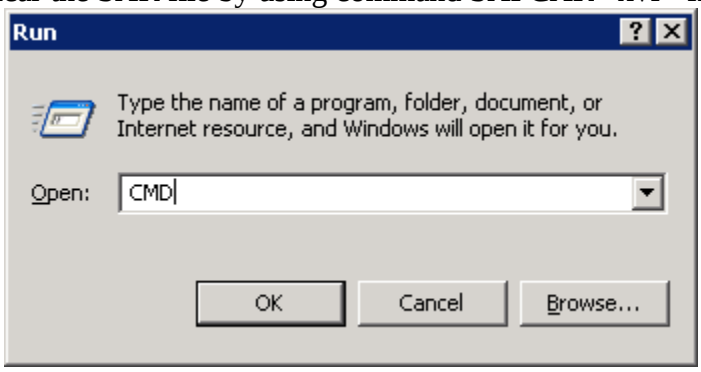

- Ensure that SPAM/SAINT Tool is updated.

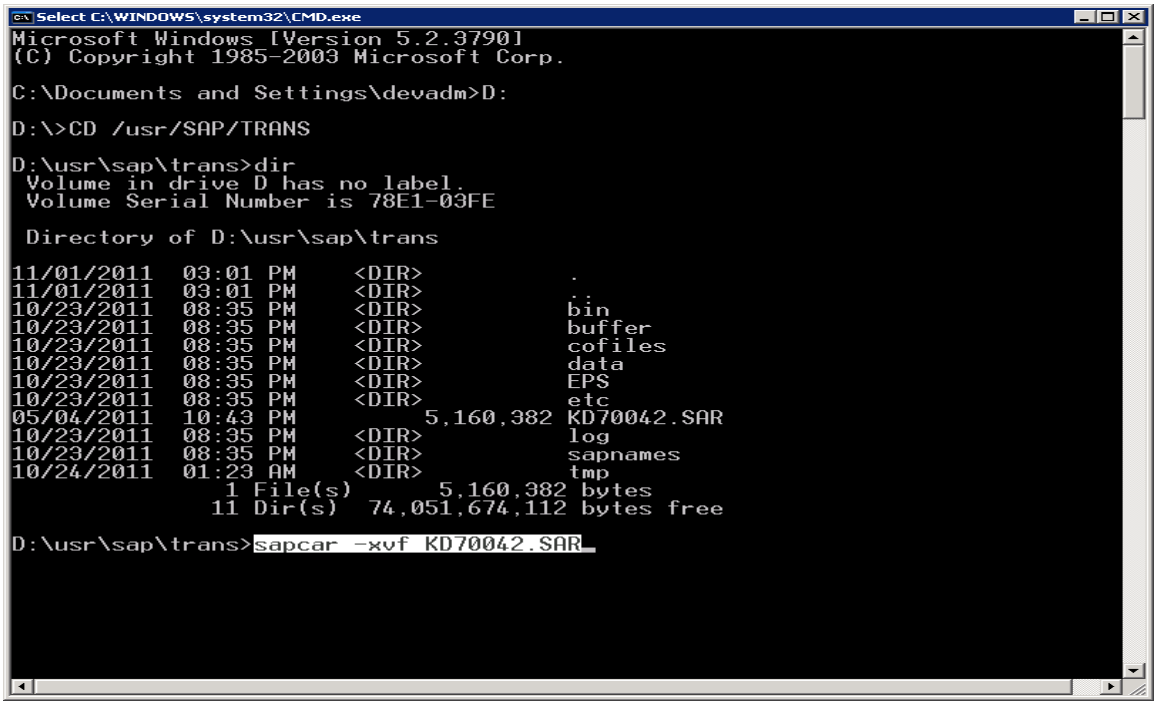
(Below is the procedure to update the SPAM/SAINT Tool)

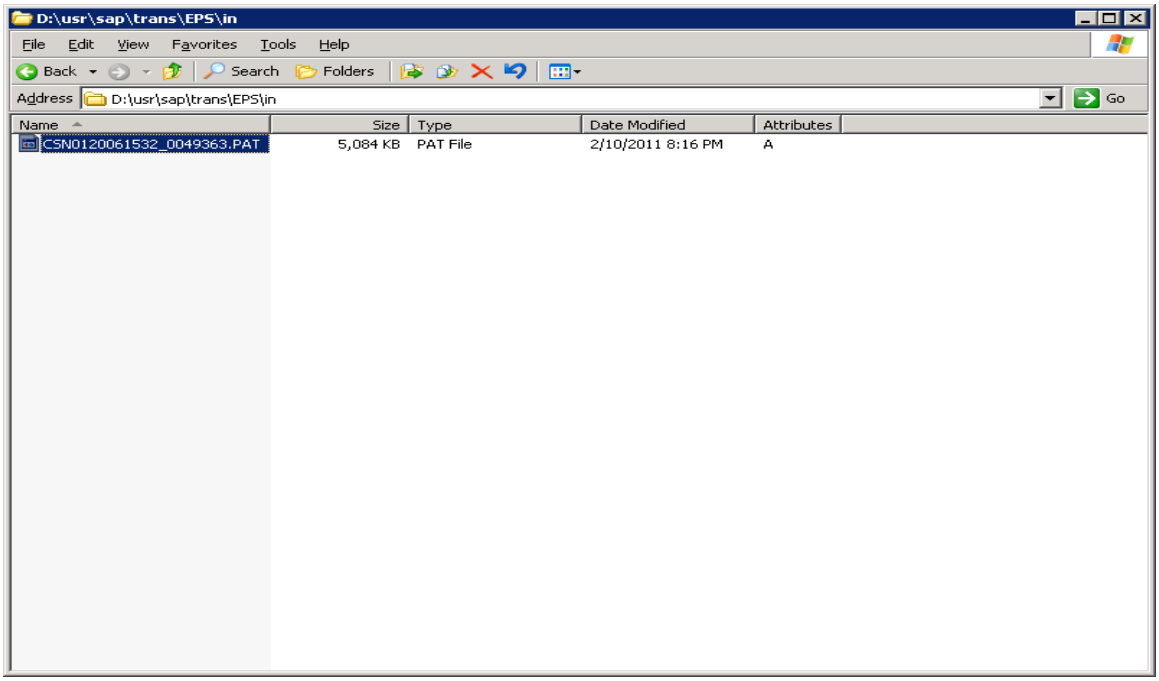
Copy the .SAR file into trans Directory



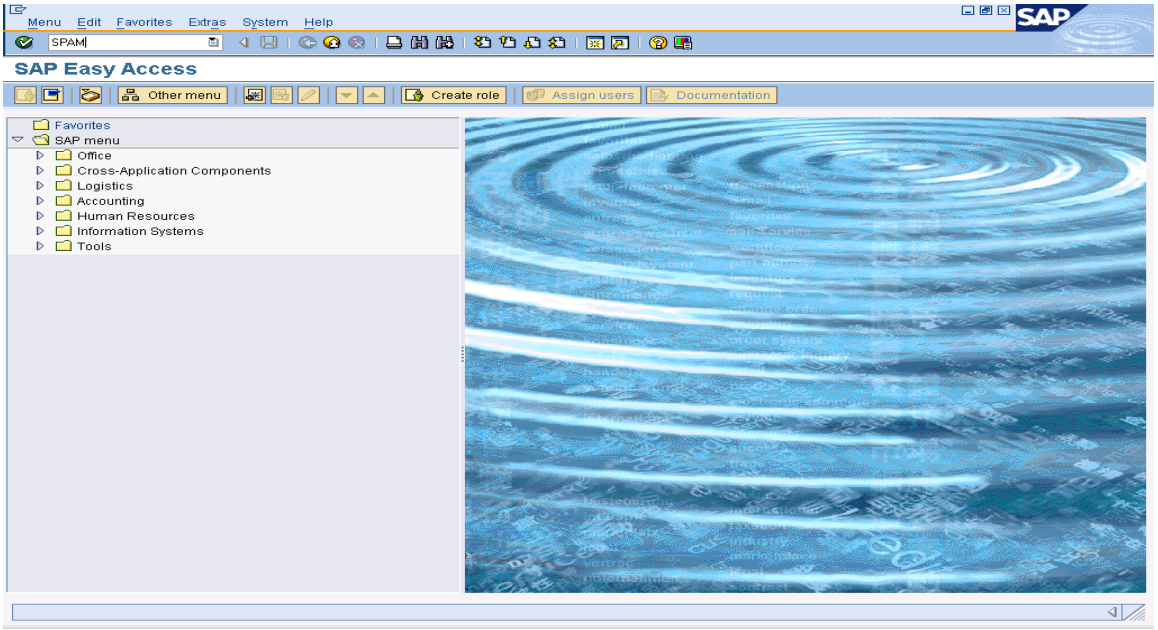

Uncar the SAR file by using command SAPCAR –xvf <filename.SAR>



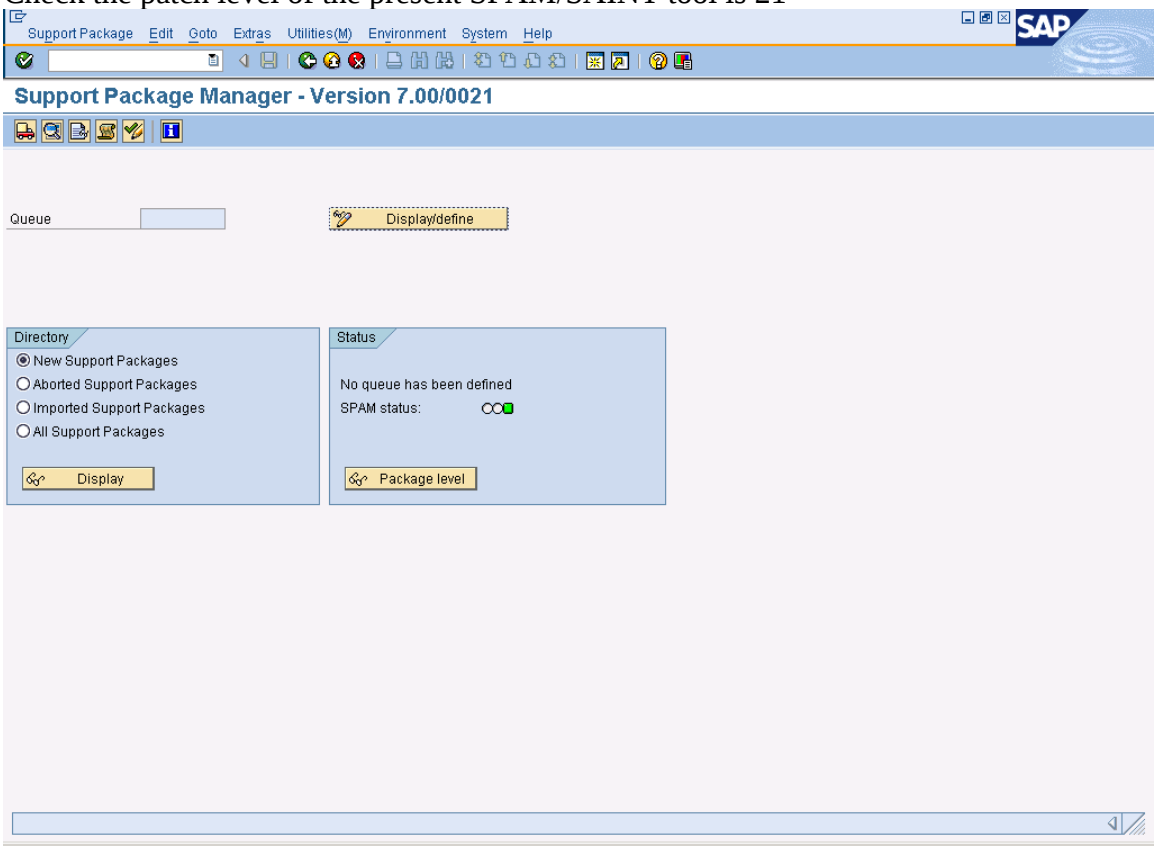

Select C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\devadm>D:
D:\>CD /usr/SAP/TRANS
D:\usr\sap\trans>dir
Volume in drive D has no label.
Volume Serial Number is 78E1-03FE
Directory of D:\usr\sap\trans
11/01/2011 03:01 PM <DIR> .
11/01/2011 03:01 PM <DIR> ..
10/23/2011 08:35 PM <DIR> bin
10/23/2011 08:35 PM <DIR> buffer
10/23/2011 08:35 PM <DIR> cofiles
10/23/2011 08:35 PM <DIR> data
10/23/2011 08:35 PM <DIR> EPS
10/23/2011 08:35 PM <DIR> etc
05/04/2011 10:43 PM 5,160,382 KD70042.SAR
10/23/2011 08:35 PM <DIR> log
10/23/2011 08:35 PM <DIR> sapnames
10/24/2011 01:23 AM <DIR> tmp
1 File(s) 5,160,382 bytes
11 Dir(s) 74,051,674,112 bytes free
D:\usr\sap\trans>sapcar -xvf KD70042.SAR


D:\usr\sap\trans\EPS\in
File Edit View Favorites Tools Help
Back Search Folders
Address D:\usr\sap\trans\EPS\in
Go
Name Size Type Date Modified Attributes
CSN0120061532_0049363.PAT 5,084 KB PAT File 2/10/2011 8:16 PM A

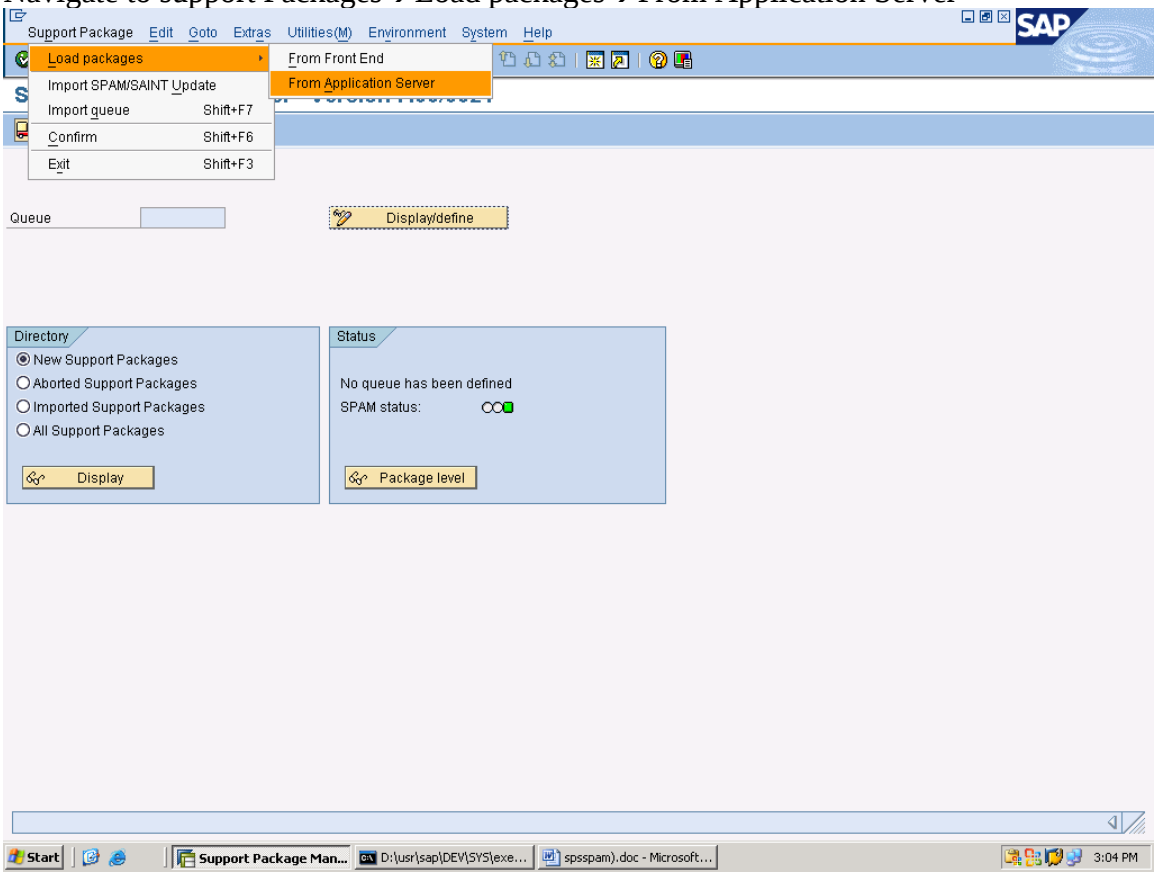
Execute Transaction Code SPAM"→

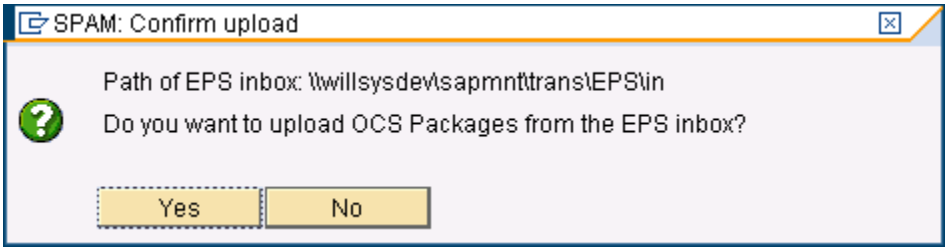



Check the patch level of the present SPAM/SAINT tool is 21

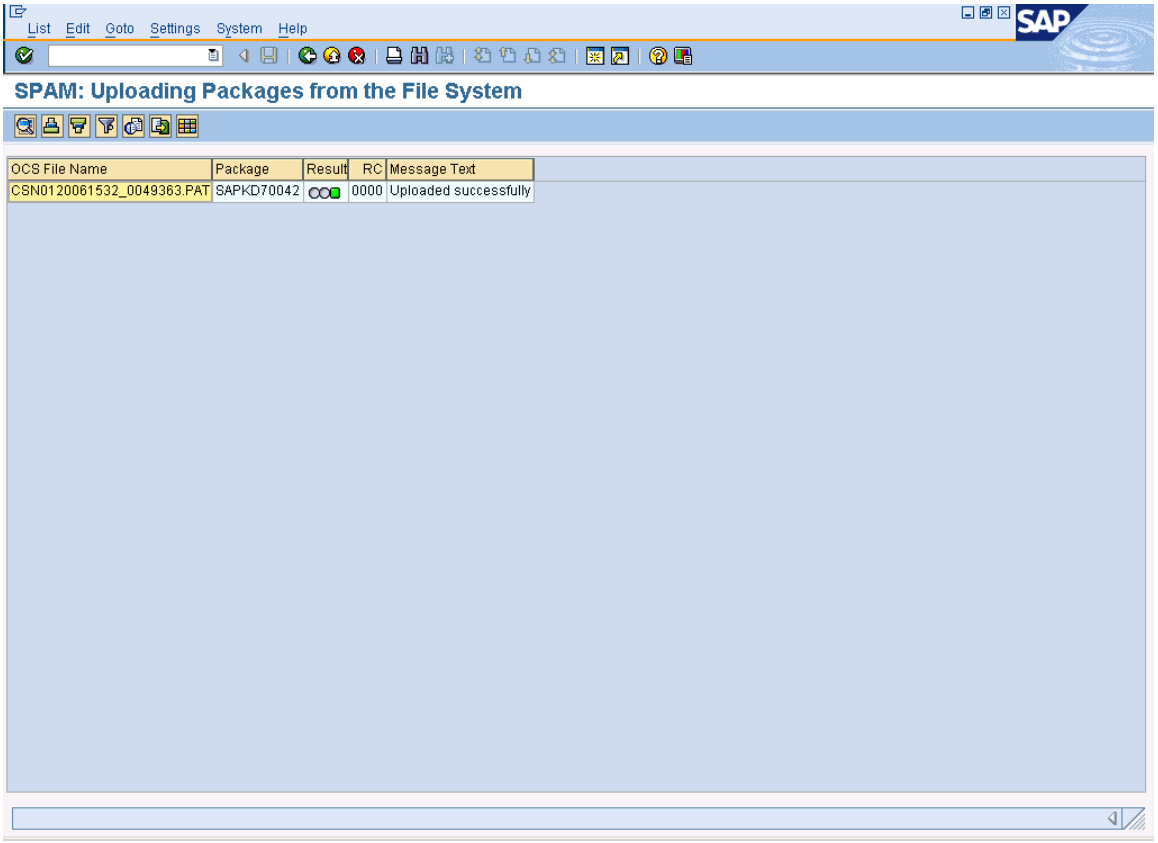


Navigate to support Packages→Load packages→From Application Server



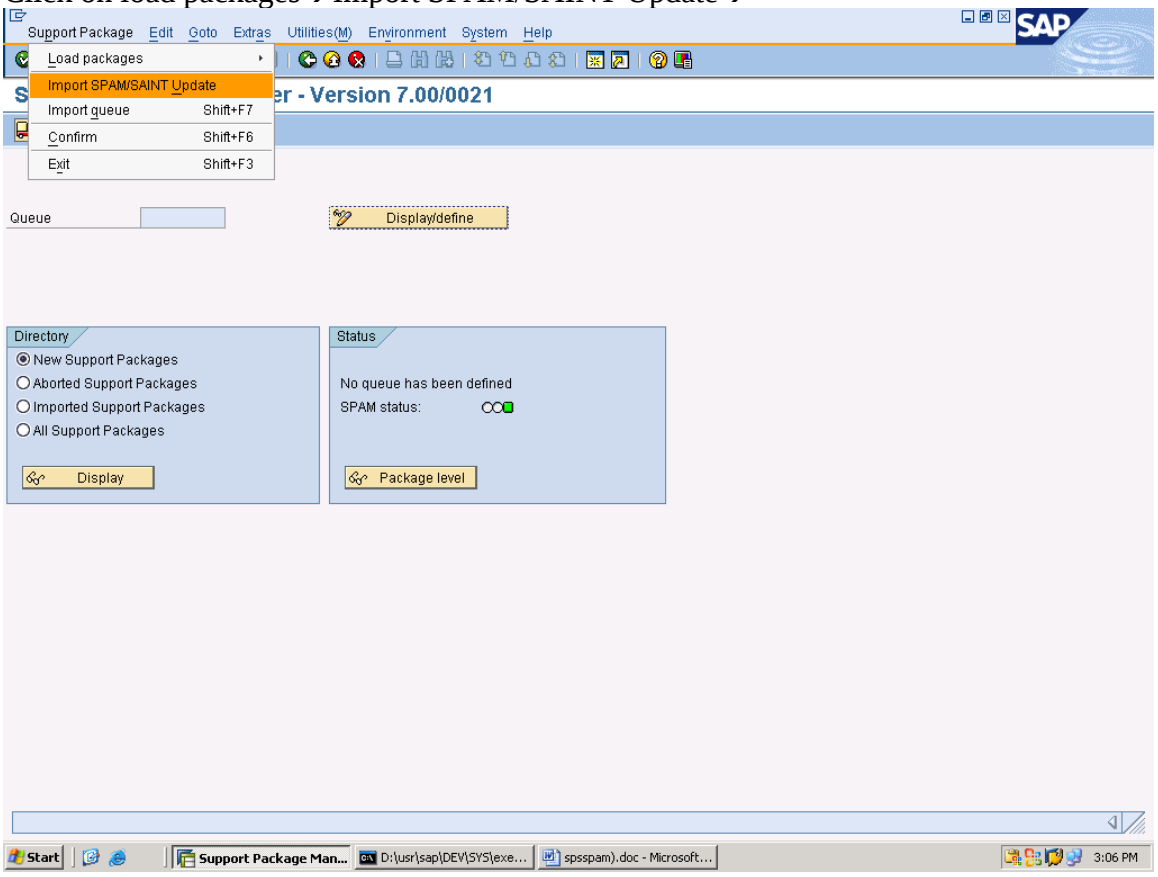



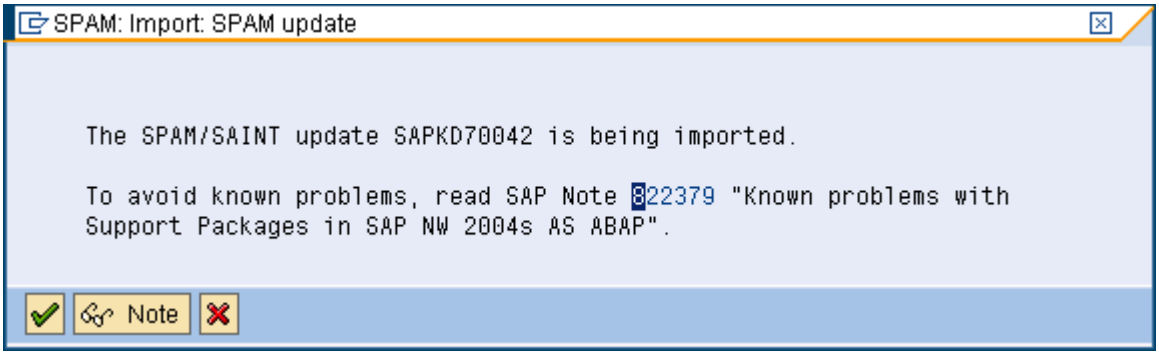

Click on "Yes"→



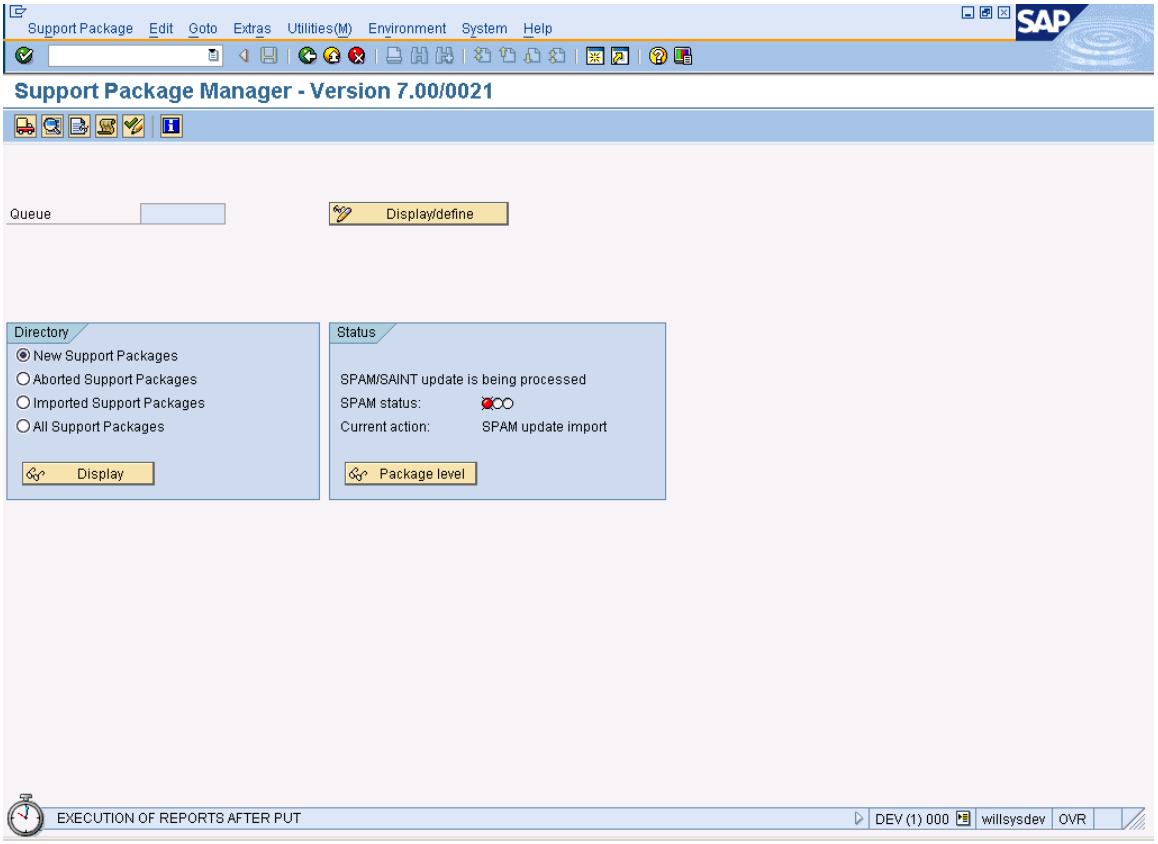

Click on “Back” button→

Click on load packages→Import SPAM/SAINT Update→

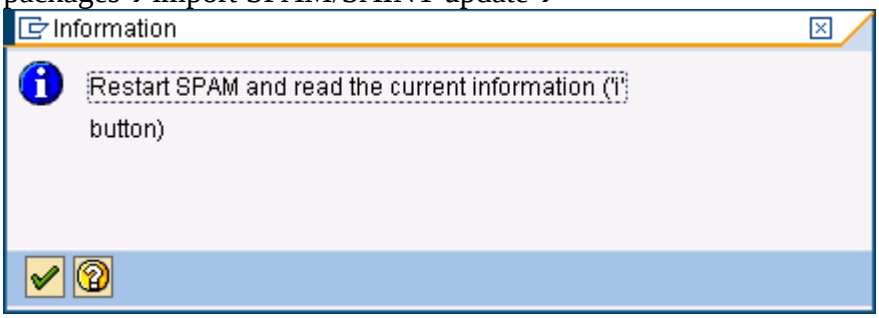



Before Click on ok button Read the Note (822379) and click on “ok” Button→

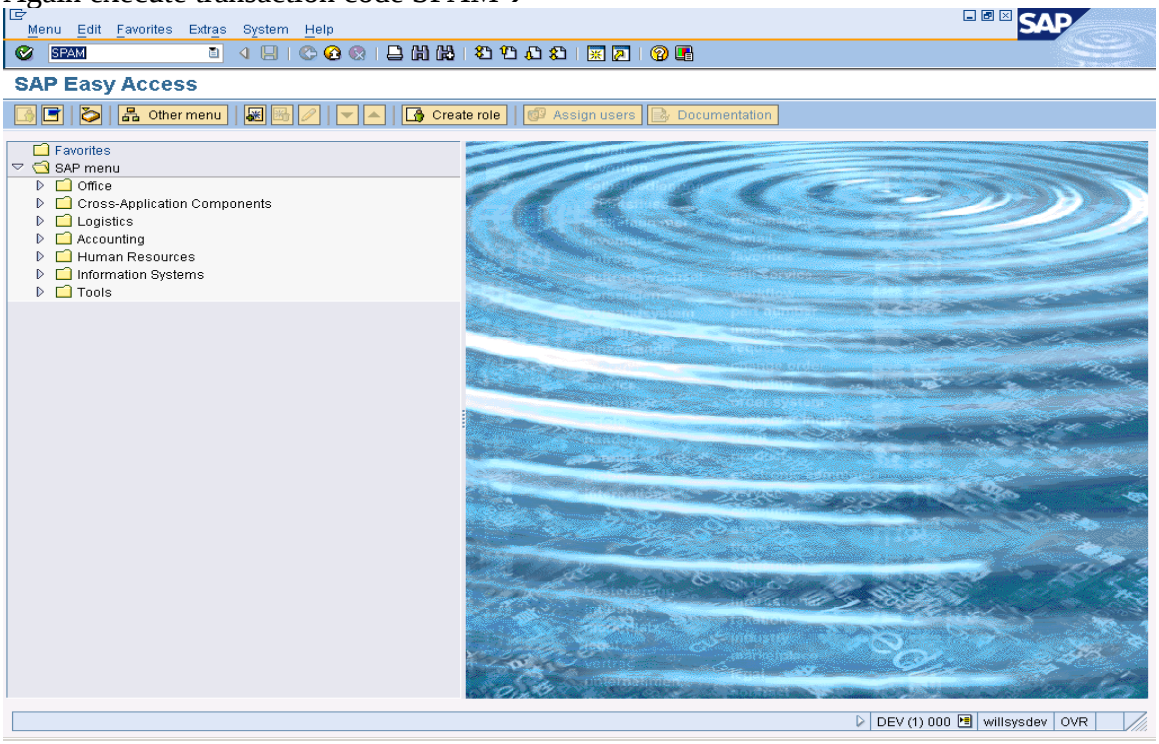


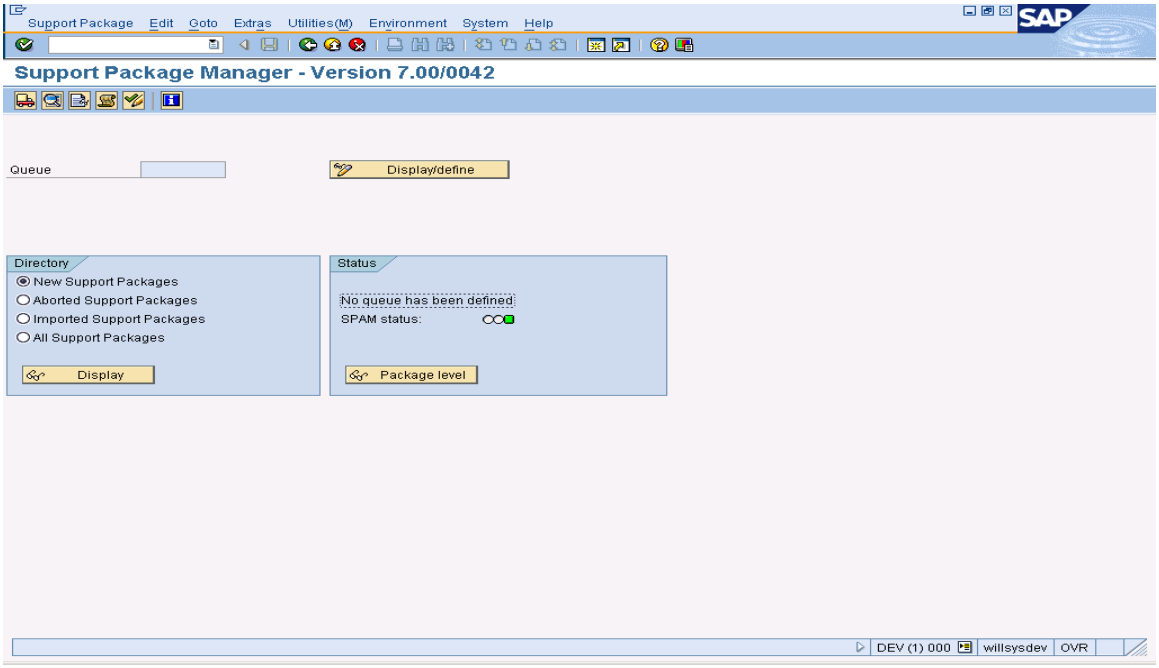

Note:-If you get any error in “EPILOGUE” phase again import by using support packages→import SPAM/SAINT update→




Click on “ok” Button→

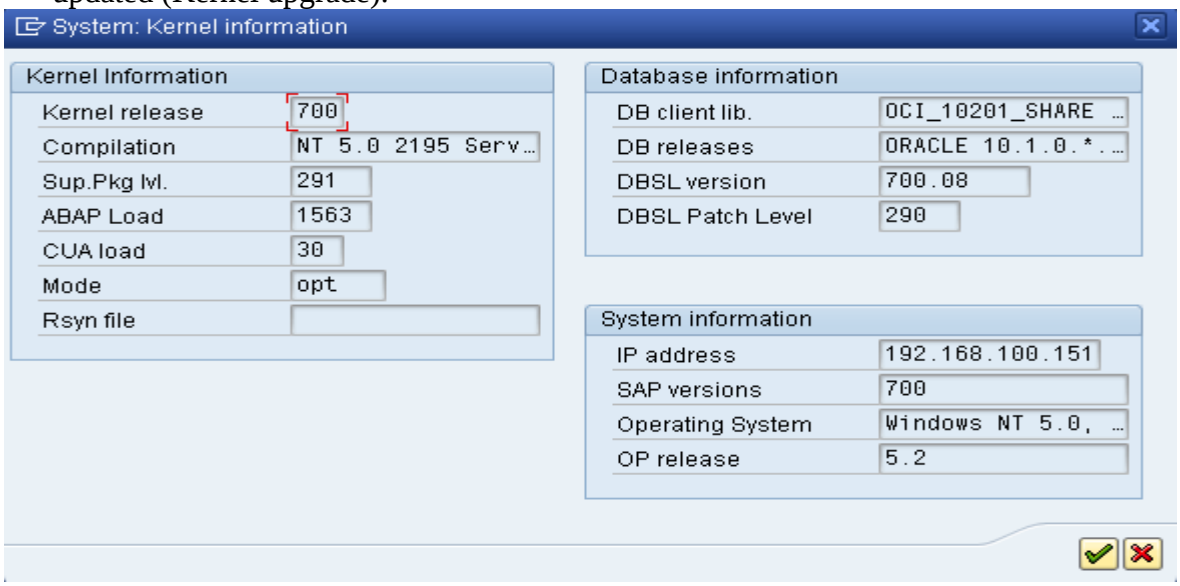
Again execute transaction code SPAM→



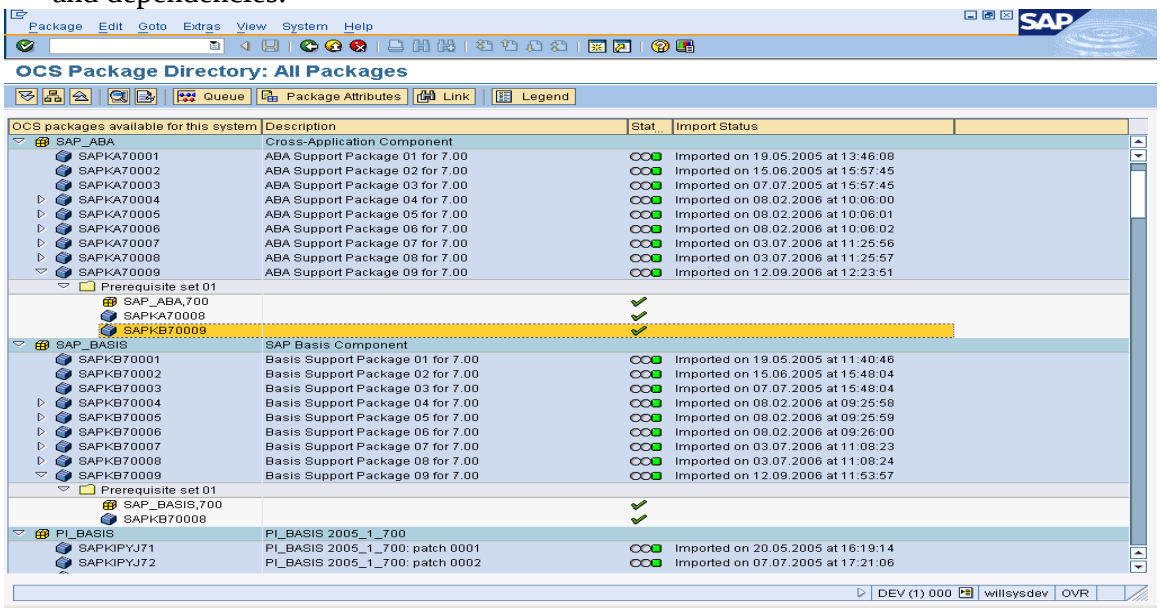

SPAM/SAINT Tool is updated successfully to patch level 42

- Ensure that tp (Transport Protocol), SAPCAR and R3trans are updated (Kernel upgrade).




Kernel is upgraded successfully

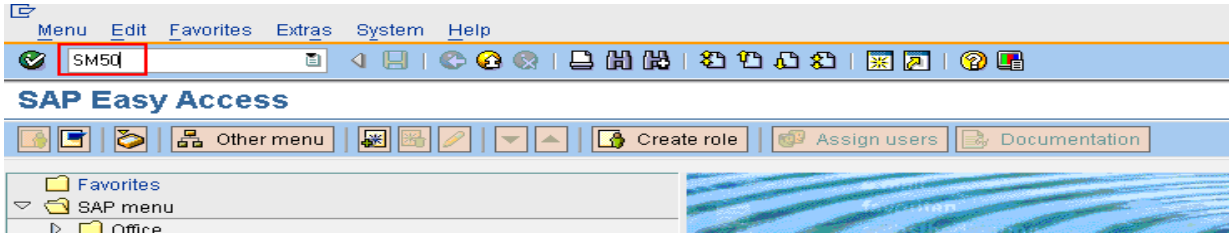
- Patch should be applied in the sequence of numbers (1, 2, 3, 4,…).
- No jumping between patches is allowed.
- Patches should be applied in the sequence of support packages SAP_BASIS, SAP_ABAP, SAP_BW, SAP_AP, SAP_APPL, SAP_HR.
- Before importing any support package check the pre-requisites and dependencies.



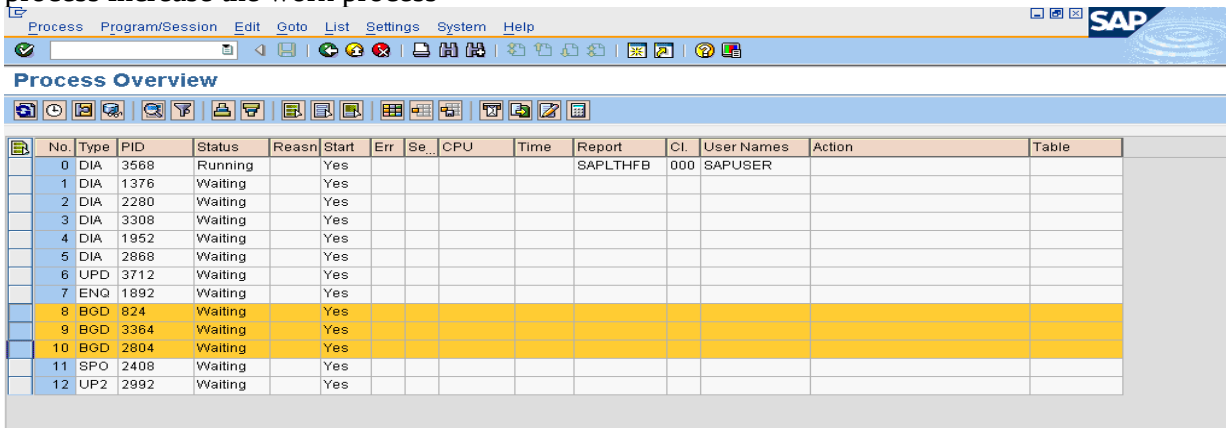
- Based on the support package size apply through front end (Below 10MB) (or) application server (>10MB).
- Take a valid backup before applying support packages use DB13 (or) BRTools.

- Ensure that atleast two Background work process are available to apply the patches (SAPMMC or SM50).They are used to run SAP Transport Programs.

Execute Transaction Code “SM50”→



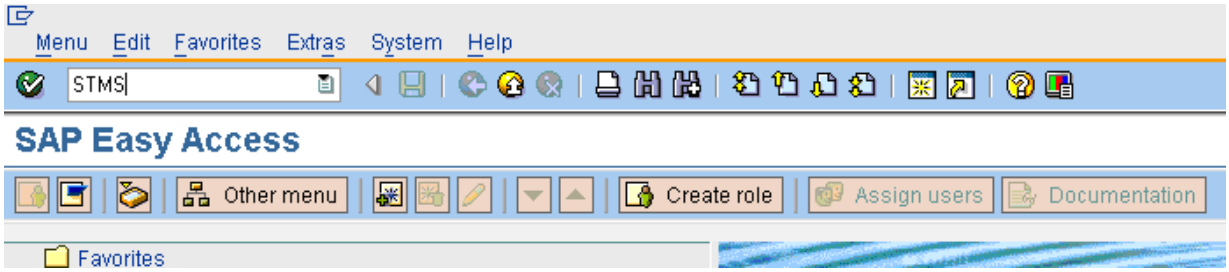

Check the number of background Work Process if it is less than 2 Background work process increase the work process

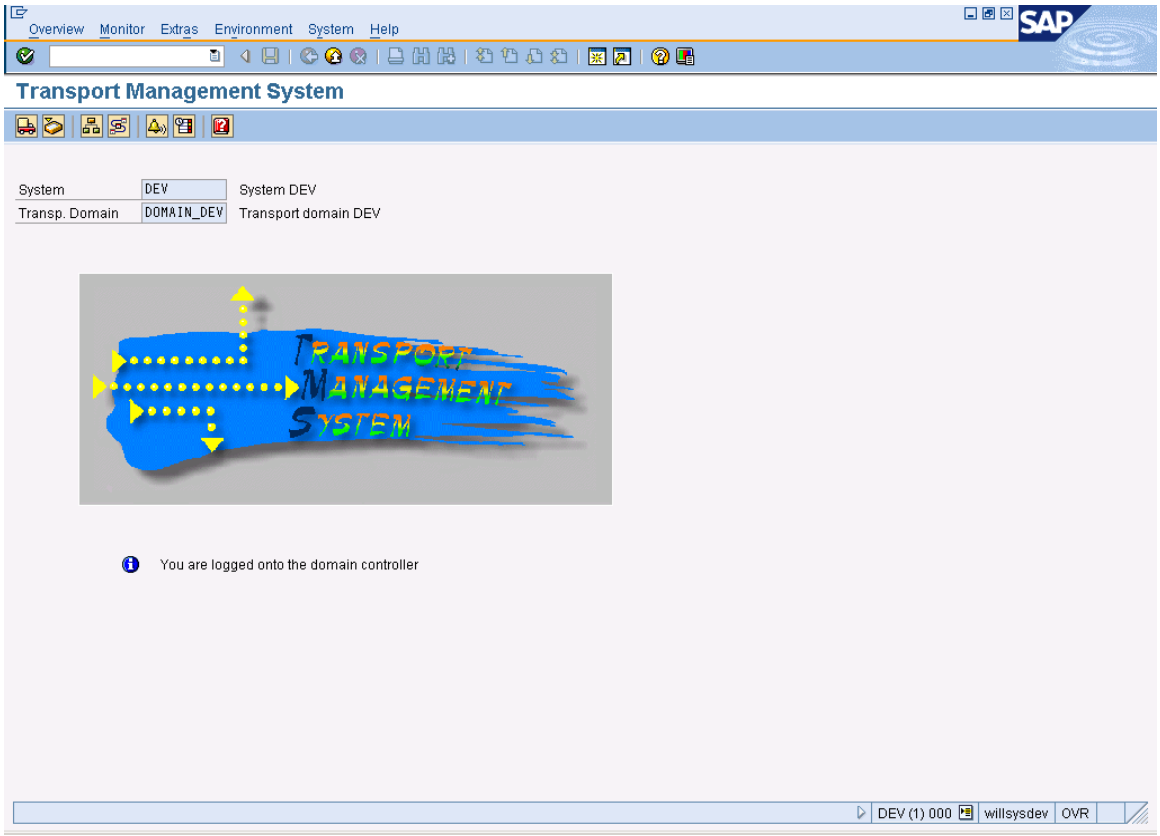



| No. | Type | PID | Status | Reasn | Start | Err | Se.. | CPU | Time | Report | Cl. | User Names | Action | Table |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | DIA | 3568 | Running | | Yes | | | | | SAPLTHFB | 000 | SAPUSER | | |
| 1 | DIA | 1376 | Waiting | | Yes | | | | | | | | | |
| 2 | DIA | 2280 | Waiting | | Yes | | | | | | | | | |
| 3 | DIA | 3308 | Waiting | | Yes | | | | | | | | | |
| 4 | DIA | 1952 | Waiting | | Yes | | | | | | | | | |
| 5 | DIA | 2868 | Waiting | | Yes | | | | | | | | | |
| 6 | UPD | 3712 | Waiting | | Yes | | | | | | | | | |
| 7 | ENQ | 1892 | Waiting | | Yes | | | | | | | | | |
| 8 | BGD | 824 | Waiting | | Yes | | | | | | | | | |
| 9 | BGD | 3364 | Waiting | | Yes | | | | | | | | | |
| 10 | BGD | 2804 | Waiting | | Yes | | | | | | | | | |
| 11 | SPO | 2408 | Waiting | | Yes | | | | | | | | | |
| 12 | UP2 | 2992 | Waiting | | Yes | | | | | | | | | |

- Ensure that STMS is configured in the system.

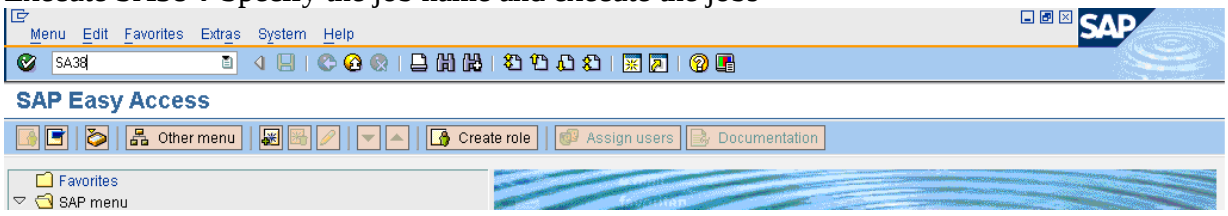
Execute Transaction Code “STMS”→

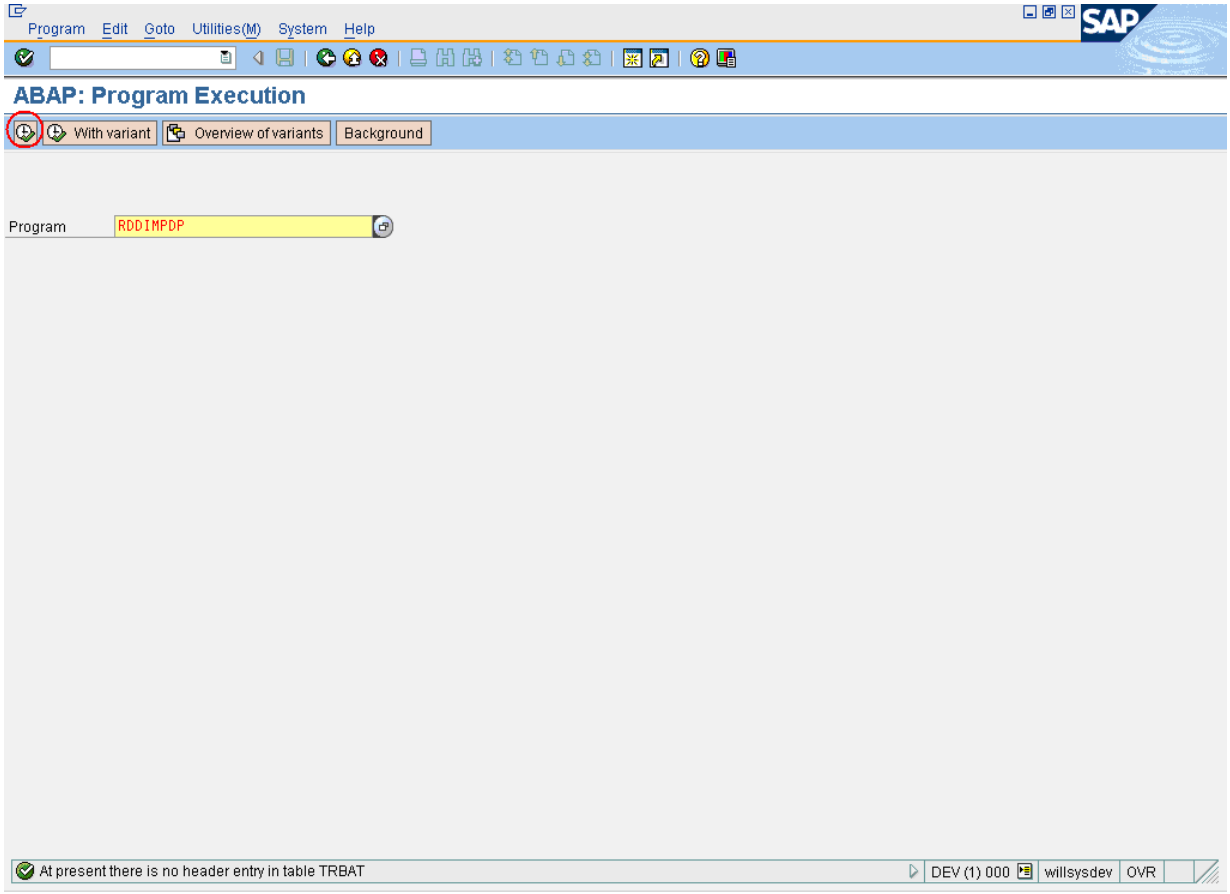


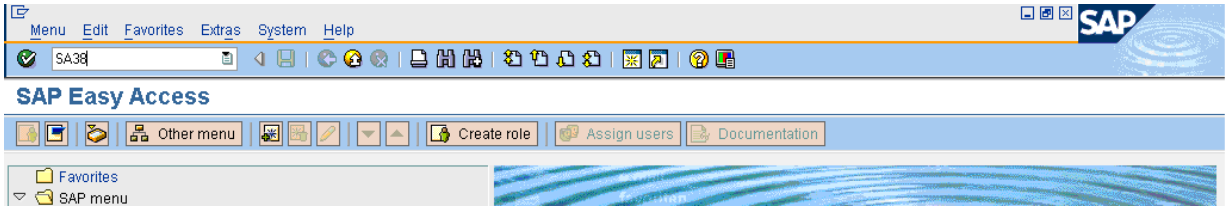


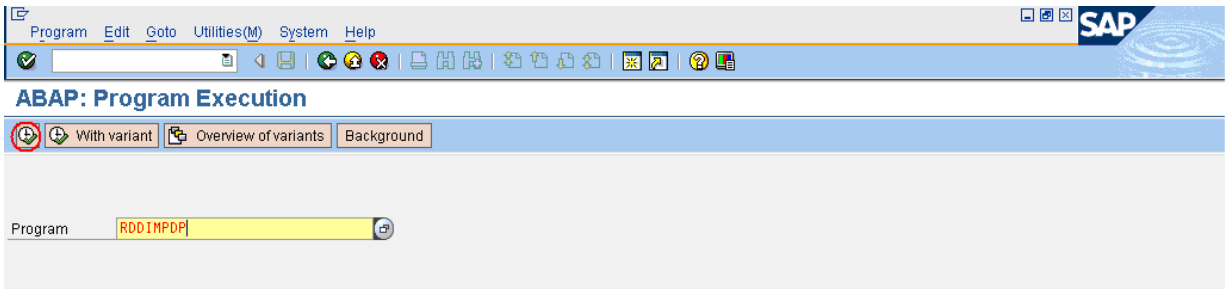

- Ensure that “RDDIMPDP” and “RDDNEWPP” Background jobs are scheduled in ‘000’ client to apply the support packages. This job initiates the tp. RDDIMPDP recognizes that there is work to-do in the table ‘TRBAT’ and ‘TRJOB’

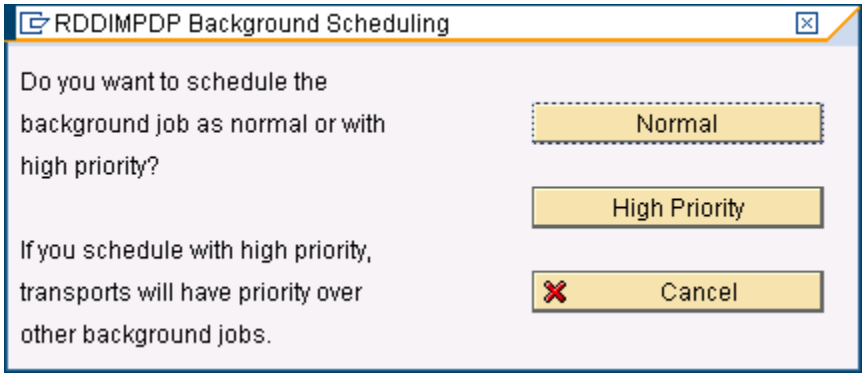
Execute SA38→Specify the job name and execute the jobs



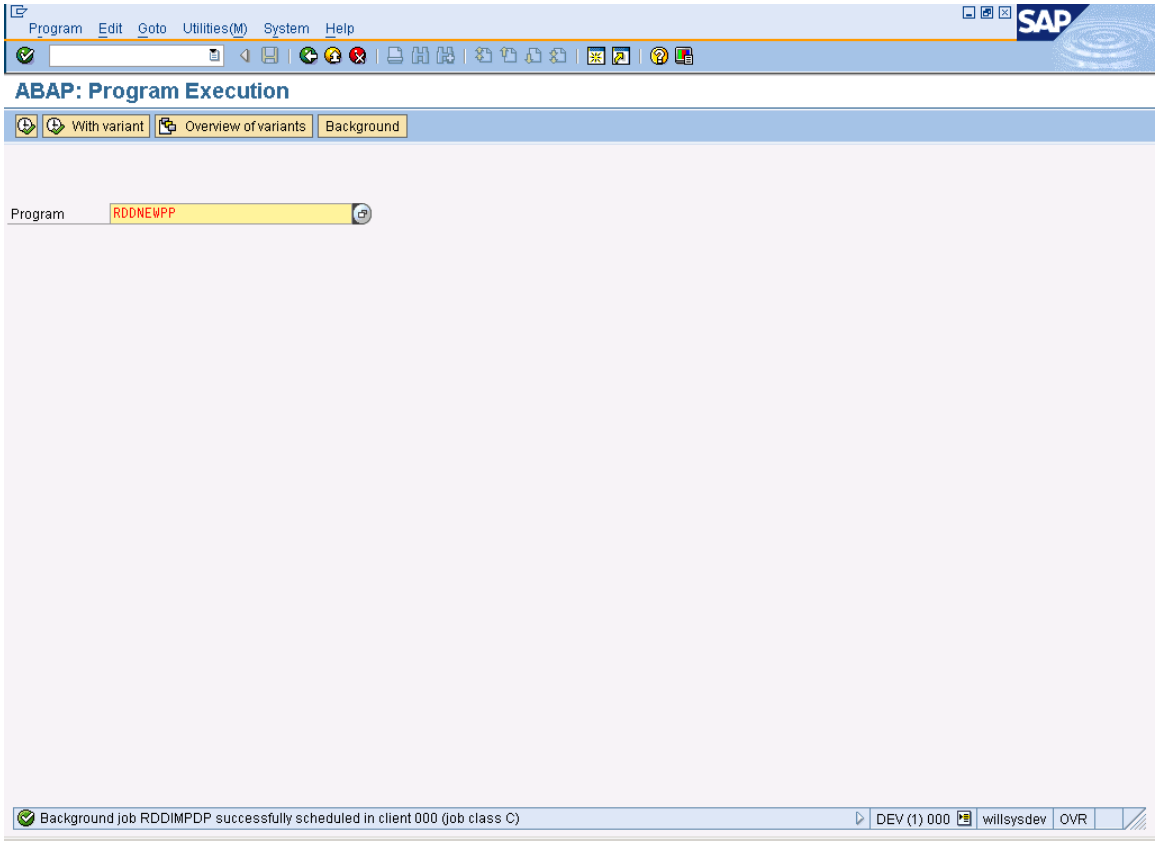

Program Edit Goto Utilities(M) System Help
ABAP: Program Execution
With variant
Overview of variants
Background
Program
RDDIMPDP
At present there is no header entry in table TRBAT
DEV (1) 000
willsysdev
OVR


Menu Edit Favorites Extras System Help
SA38
SAP Easy Access
Other menu
Create role
Assign users
Documentation
Favorites
SAP menu

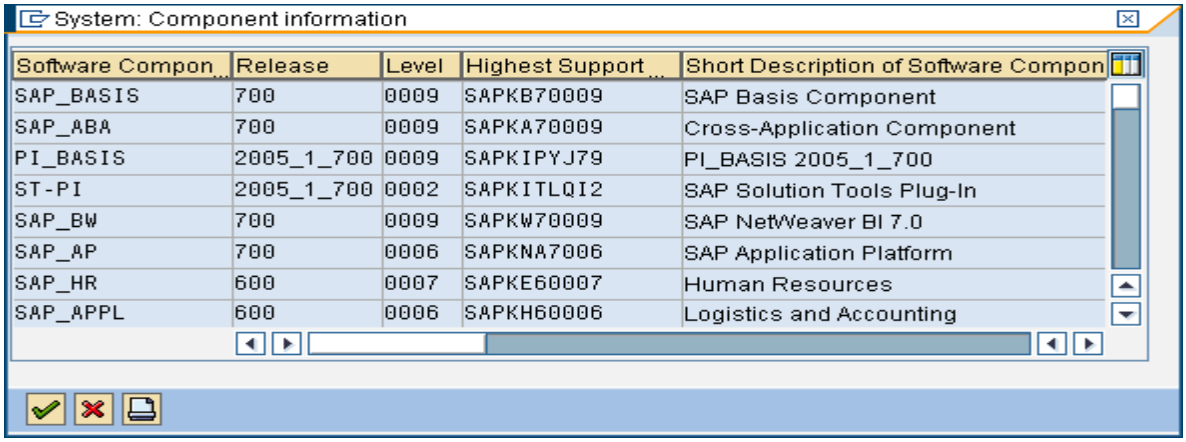

Program Edit Goto Utilities(M) System Help
ABAP: Program Execution
With variant
Overview of variants
Background
Program
RDDIMPDP




Click on "Normal"→




- Check the present support pack levels by login to SAPGUI→system→status→click on magnifier→




| Software Compon... | Release | Level | Highest Support... | Short Description of Software Compon... |
|---|---|---|---|---|
| SAP_BASIS | 700 | 0009 | SAPKB70009 | SAP Basis Component |
| SAP_ABA | 700 | 0009 | SAPKA70009 | Cross-Application Component |
| PI_BASIS | 2005_1_700 | 0009 | SAPKIPYJ79 | PI_BASIS 2005_1_700 |
| ST-PI | 2005_1_700 | 0002 | SAPKITLQI2 | SAP Solution Tools Plug-In |
| SAP_BW | 700 | 0009 | SAPKW70009 | SAP NetWeaver BI 7.0 |
| SAP_AP | 700 | 0006 | SAPKNA7006 | SAP Application Platform |
| SAP_HR | 600 | 0007 | SAPKE60007 | Human Resources |
| SAP_APPL | 600 | 0006 | SAPKH60006 | Logistics and Accounting |

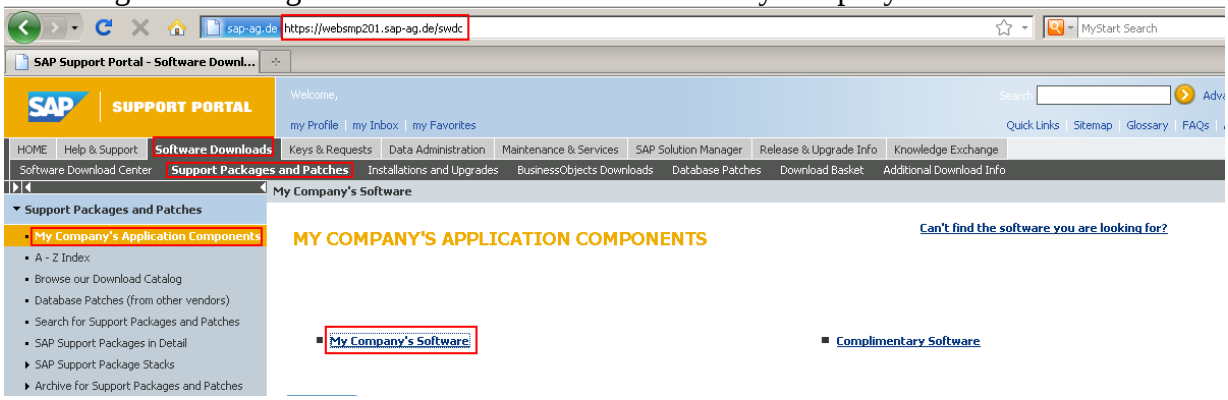
- While applying support packages related to functional areas like 'APPL' and 'HR' ensure that functional consultants are available to adopt the modifications.
- Apply support package in the sequence of Landscape.
- Support Packages are Hot Packages and applied when the system is up and running.
- Ensure that router is configured to open the system for SAP Remote support in case if the patches are choked/aborted Patches cannot be reverted (Only SAOP can do remote consulting) to undo the patches
- Ensure that there are no aborted packages in the system.
- Ensure that the objects are locked, unconfirmed/modified state in SE01 (i.e., change request need to be released).
- Ensure that SPDD/SPAU is run to adopt the modifications related to Data Dictionary Objects and Repository Objects.

Note: - SPAM/SAINT patches can be applied in any sequence

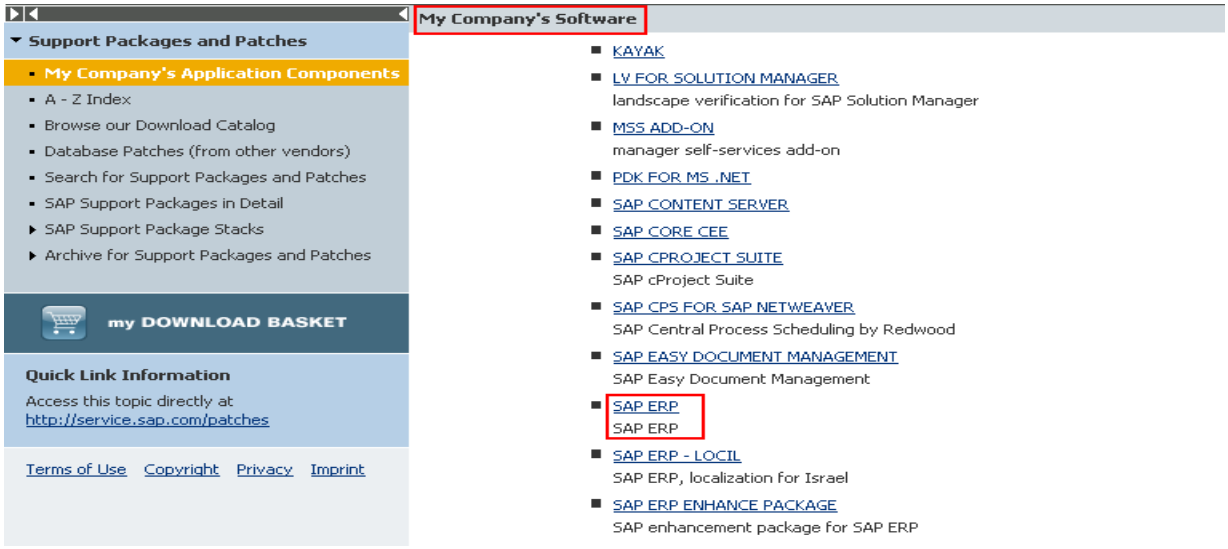
**PROCESS:-**

Download the packages from Market place using www.service.sap.com/patches

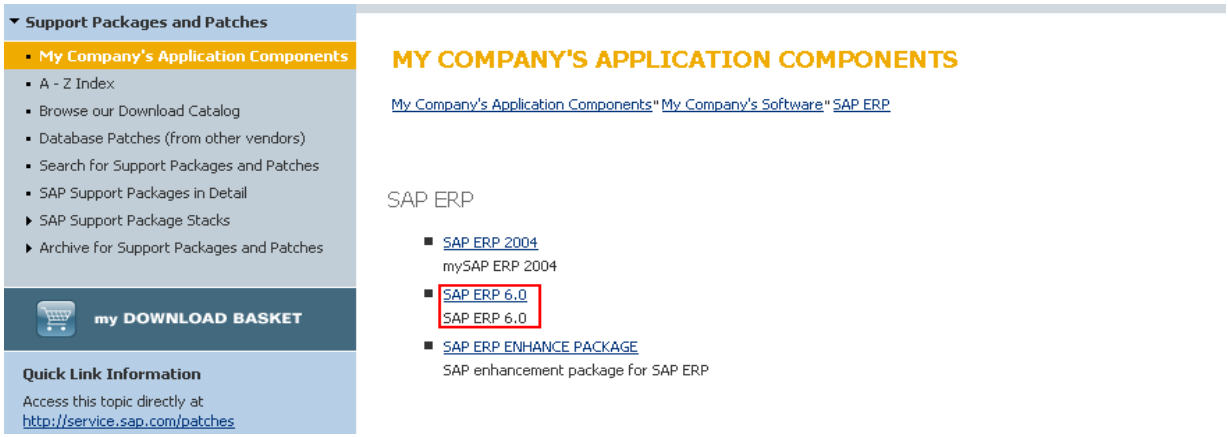
Navigate according to the below screen and click on My company Software→



Click on SAP ERP→

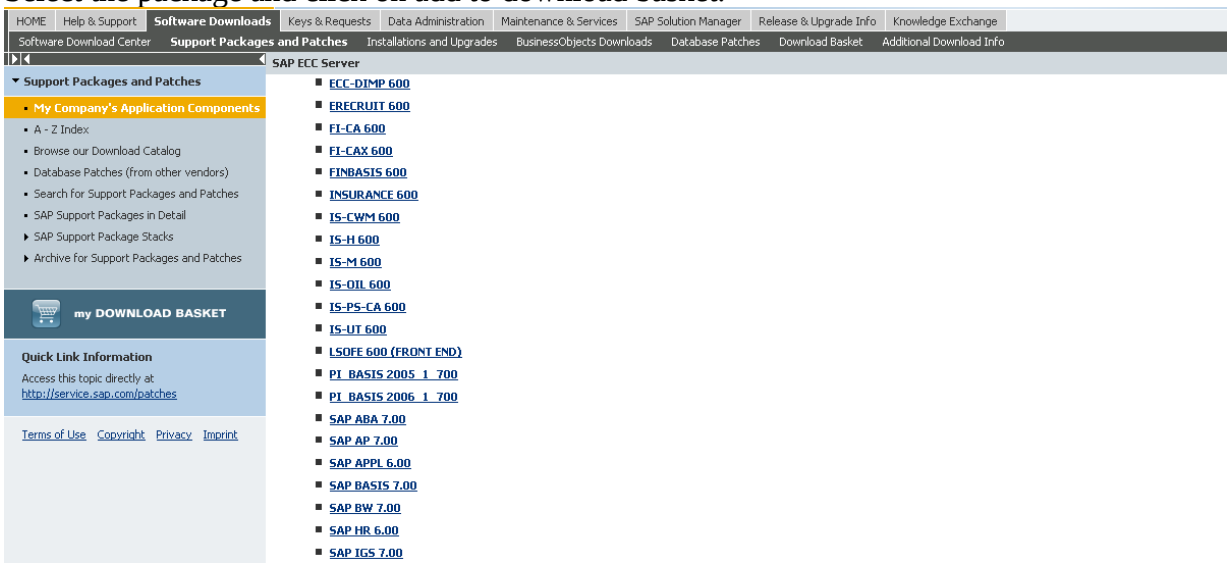



Click on SAP ERP6.0→



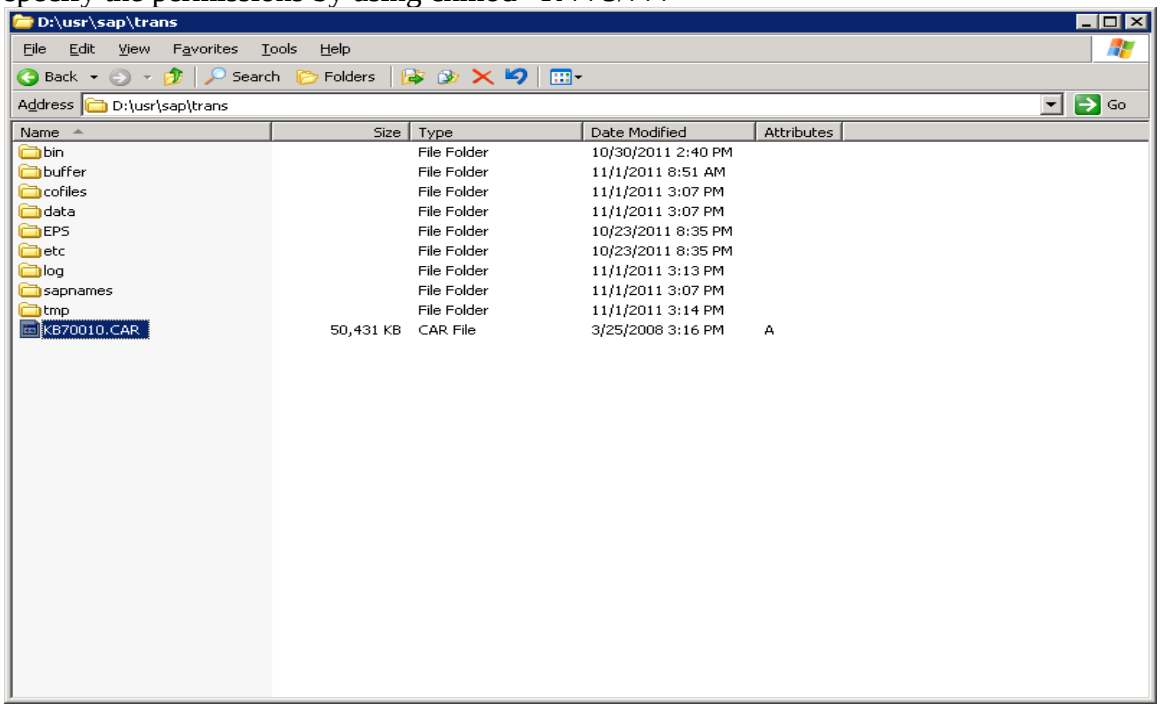

Click on Entry by Component→SAP ECC Server→

Select the package and click on add to download basket.



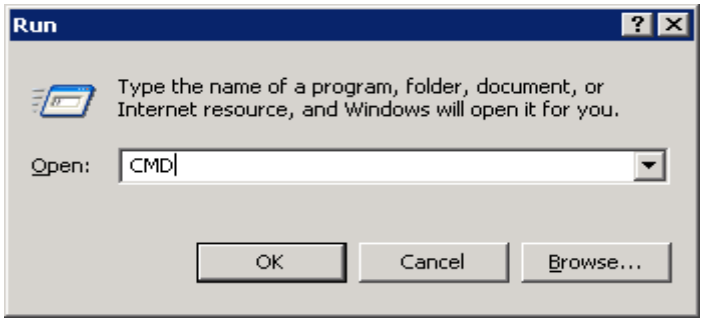

Copy the packages into trans directory ensure that they have permissions for <sid>adm and

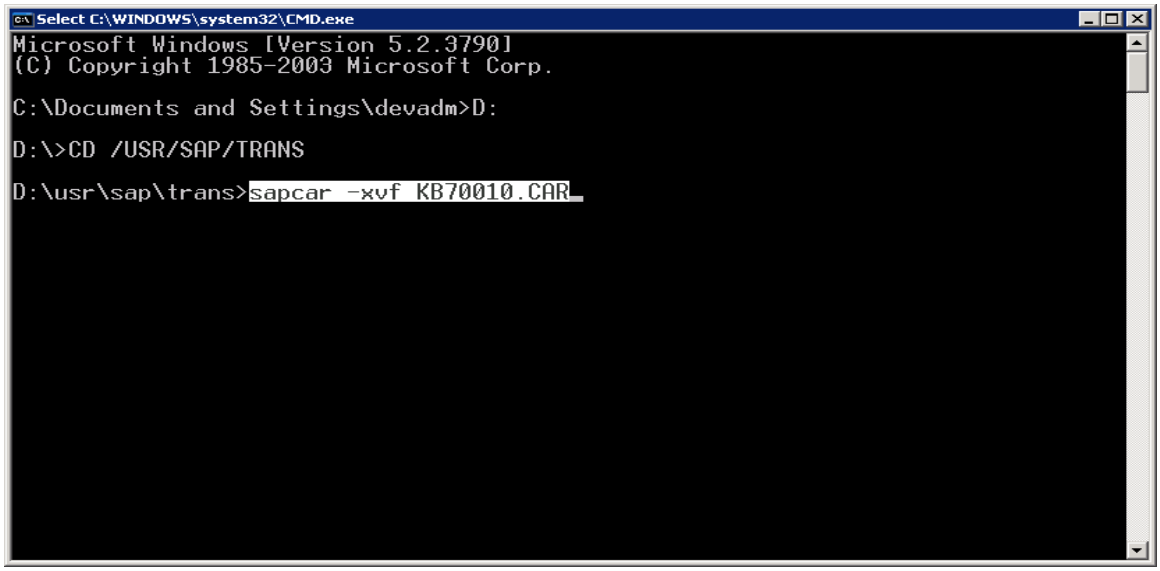
specify the permissions by using chmod –R 775/777

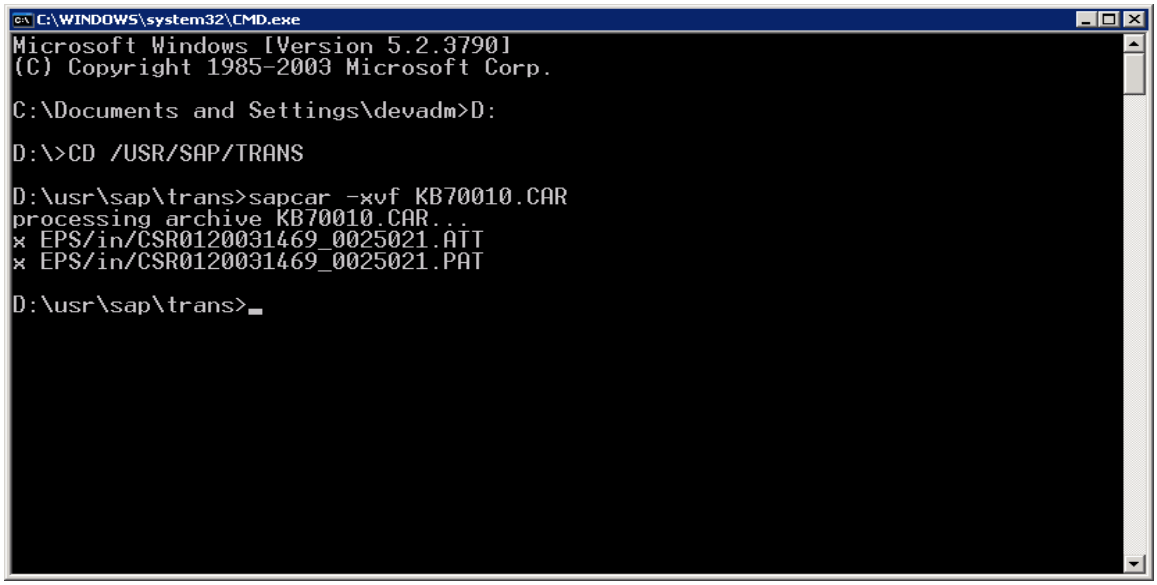



Navigate to the trans Directory and Uncar the Patches using command

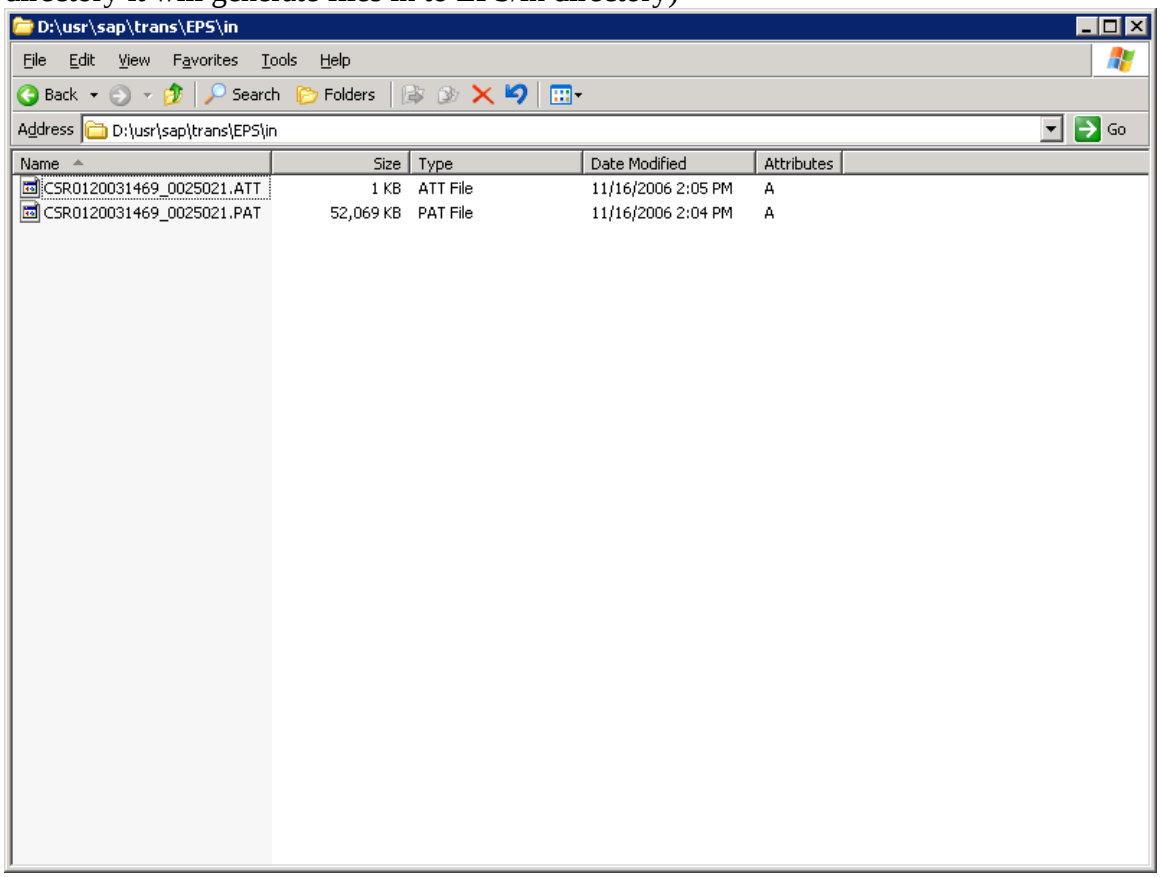
SAPCAR –xvf <filename.CAR/.SAR>


Run
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:
CMD
OK
Cancel
Browse...


Select C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\devadm>D:
D:\>CD /USR/SAP/TRANS
D:\usr\sap\trans>sapcar -xvf KB70010.CAR


C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\devadm>D:
D:\>CD /USR/SAP/TRANS
D:\usr\sap\trans>sapcar -xvf KB70010.CAR
processing archive KB70010.CAR...
x EPS/in/CSR0120031469_0025021.ATT
x EPS/in/CSR0120031469_0025021.PAT
D:\usr\sap\trans>

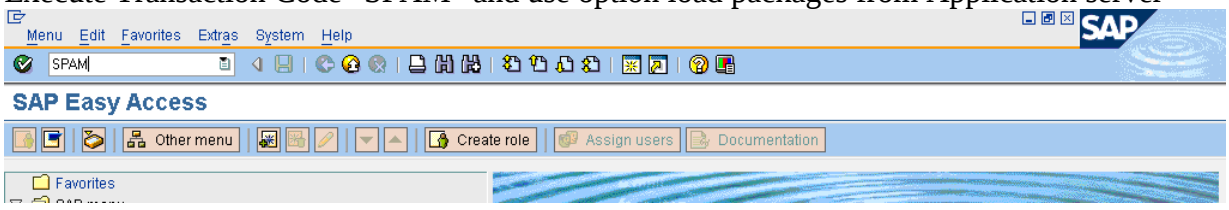
It will generate '.ATT' and '.PAT' files in the EPS/in Directory (If executed on trans directory it will generate files in to EPS/in directory)

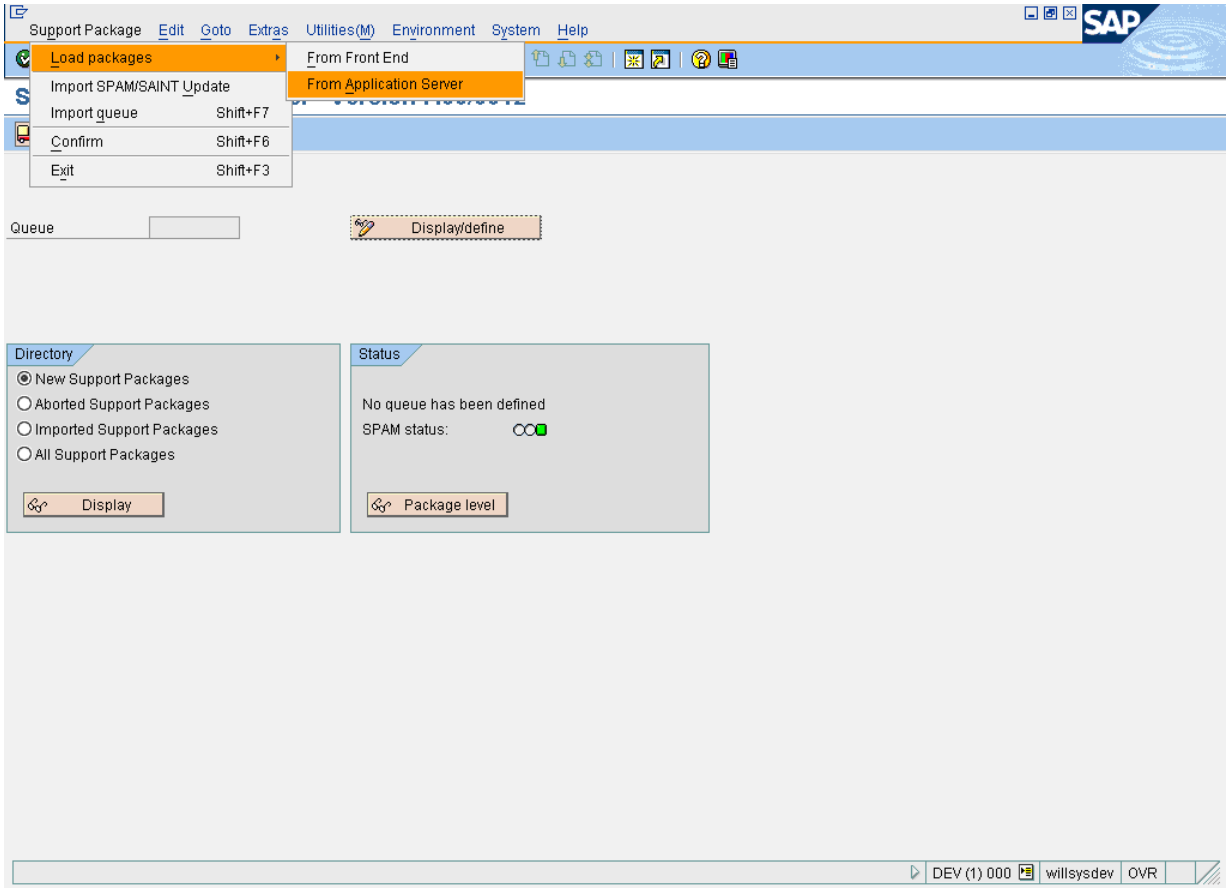


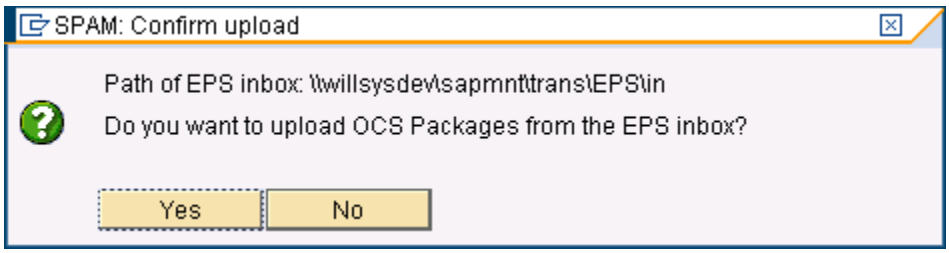

It is on any other drive or directory then it will create EPS/in directory and generate files .ATT and .PAT files in that directory.

EPS-Electronic Parcel Service is used to host the packages, add-ons, languages, etc

Execute Transaction Code "SPAM" and use option load packages from Application server

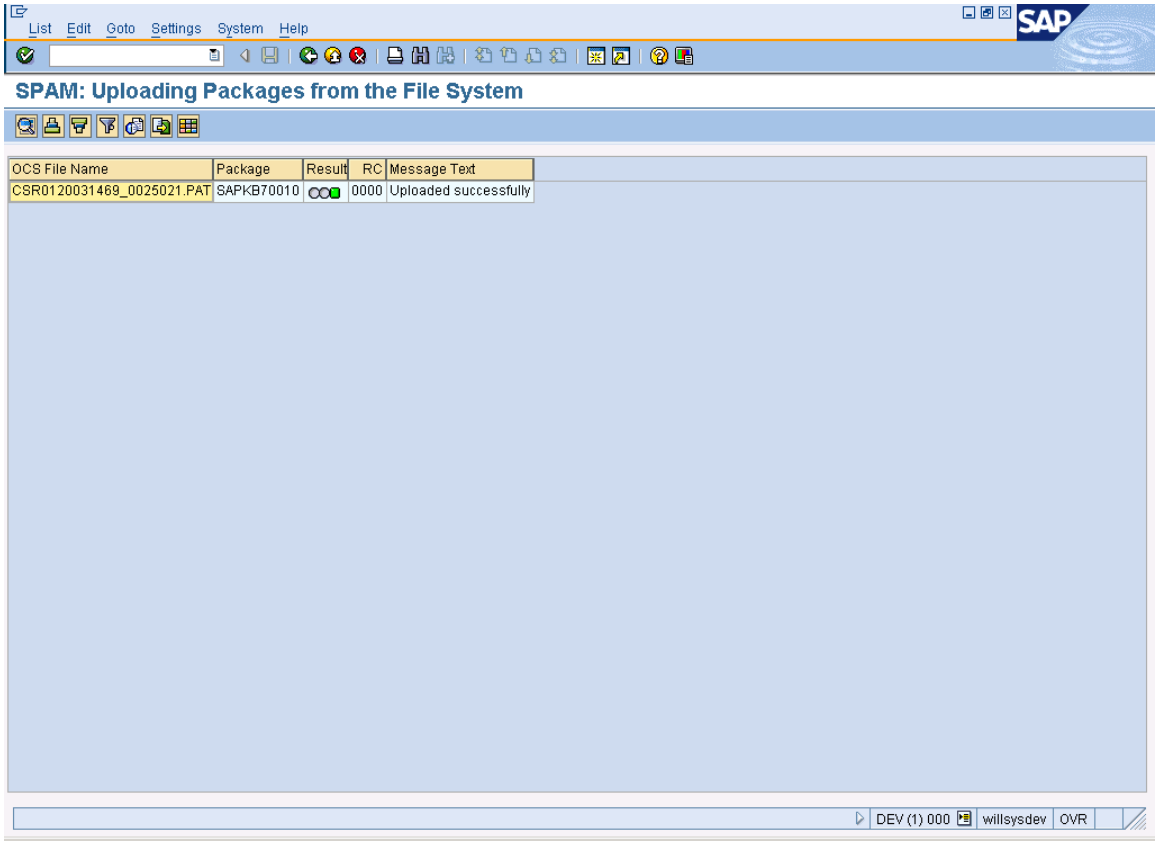




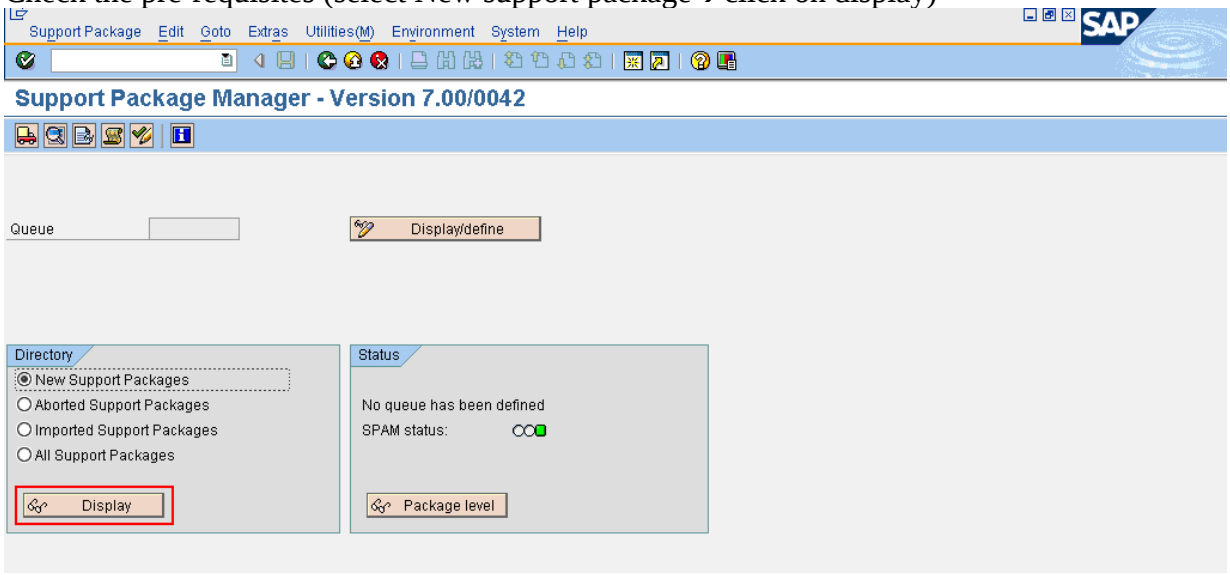

Click on Yes→

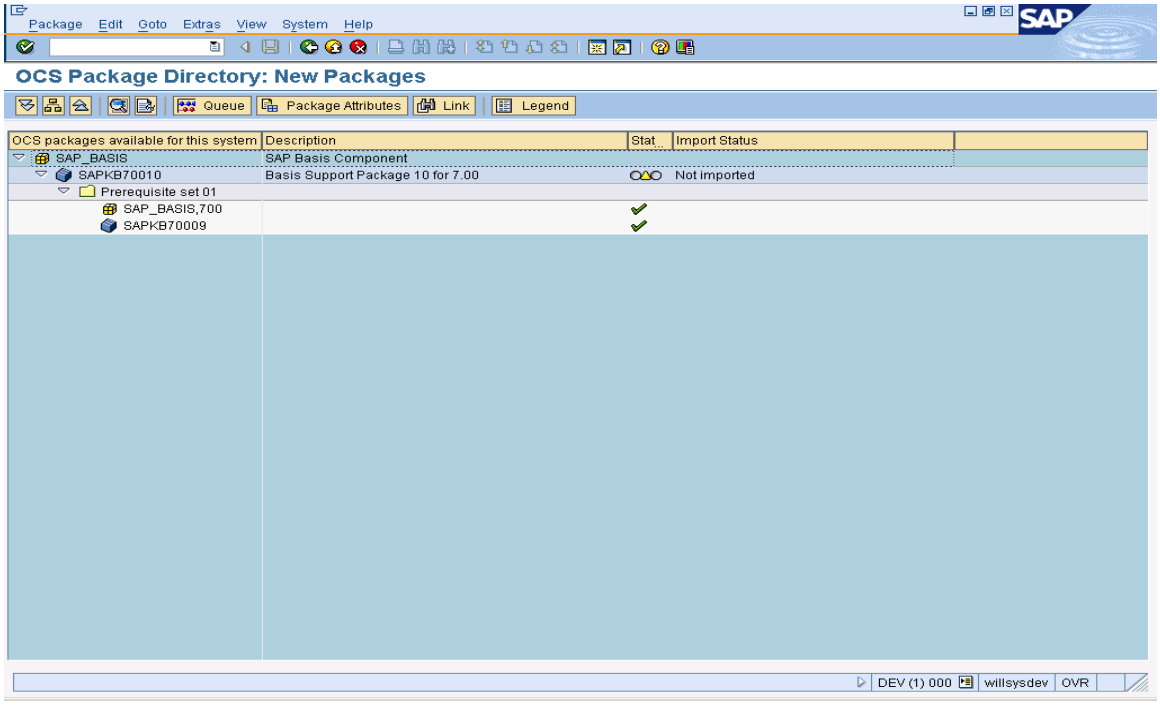
The support package is now available in the SAP database and ready for deployment



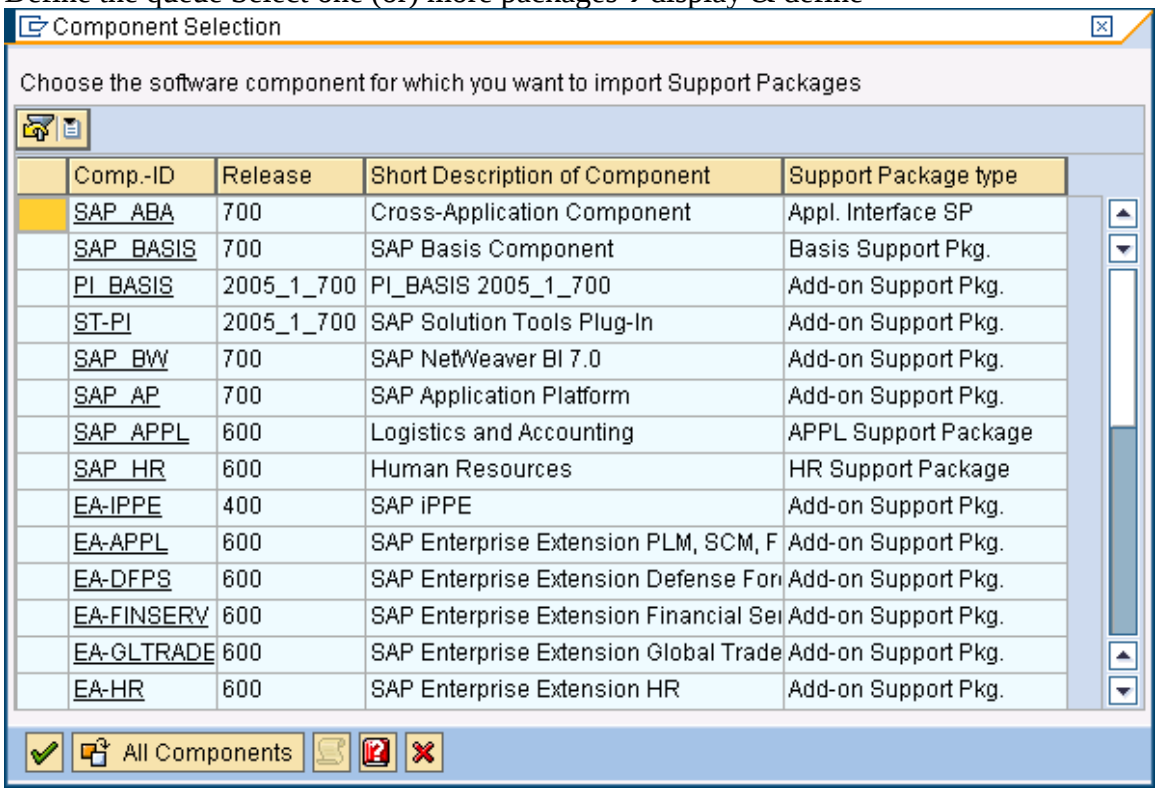

Click on “back” button→

Check the pre-requisites (select New support package→click on display)

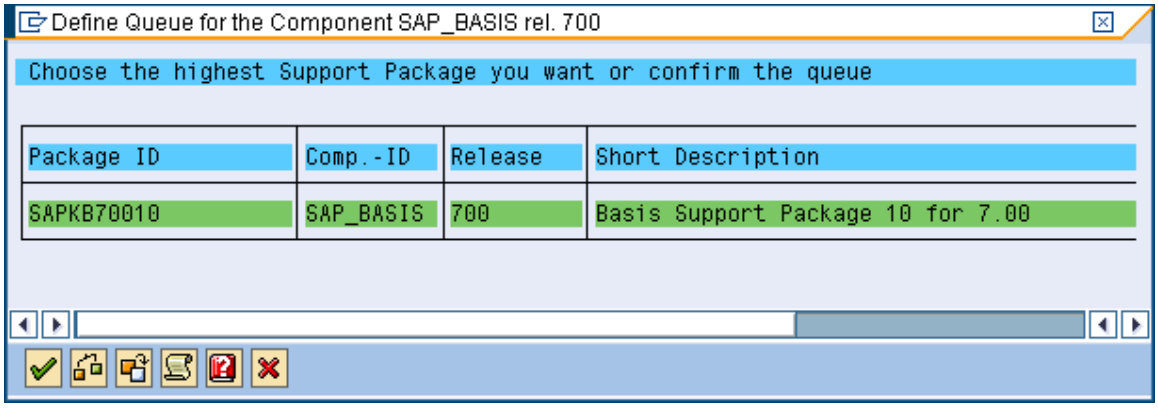




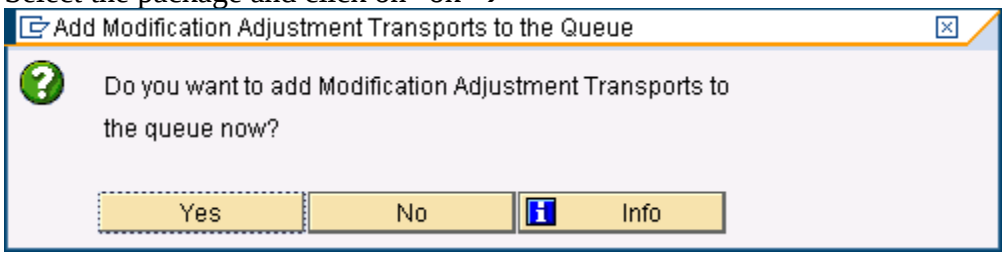

Define the queue Select one (or) more packages→display & define




| Comp.-ID | Release | Short Description of Component | Support Package type |
|---|---|---|---|
| SAP_ABA | 700 | Cross-Application Component | Appl. Interface SP |
| SAP_BASIS | 700 | SAP Basis Component | Basis Support Pkg. |
| PI_BASIS | 2005_1_700 | PI_BASIS 2005_1_700 | Add-on Support Pkg. |
| ST-PI | 2005_1_700 | SAP Solution Tools Plug-In | Add-on Support Pkg. |
| SAP_BW | 700 | SAP NetWeaver BI 7.0 | Add-on Support Pkg. |
| SAP_AP | 700 | SAP Application Platform | Add-on Support Pkg. |
| SAP_APPL | 600 | Logistics and Accounting | APPL Support Package |
| SAP_HR | 600 | Human Resources | HR Support Package |
| EA-IPPE | 400 | SAP iPPE | Add-on Support Pkg. |
| EA-APPL | 600 | SAP Enterprise Extension PLM, SCM, F | Add-on Support Pkg. |
| EA-DFPS | 600 | SAP Enterprise Extension Defense For | Add-on Support Pkg. |
| EA-FINSERV | 600 | SAP Enterprise Extension Financial Ser | Add-on Support Pkg. |
| EA-GLTRADE | 600 | SAP Enterprise Extension Global Trade | Add-on Support Pkg. |
| EA-HR | 600 | SAP Enterprise Extension HR | Add-on Support Pkg. |

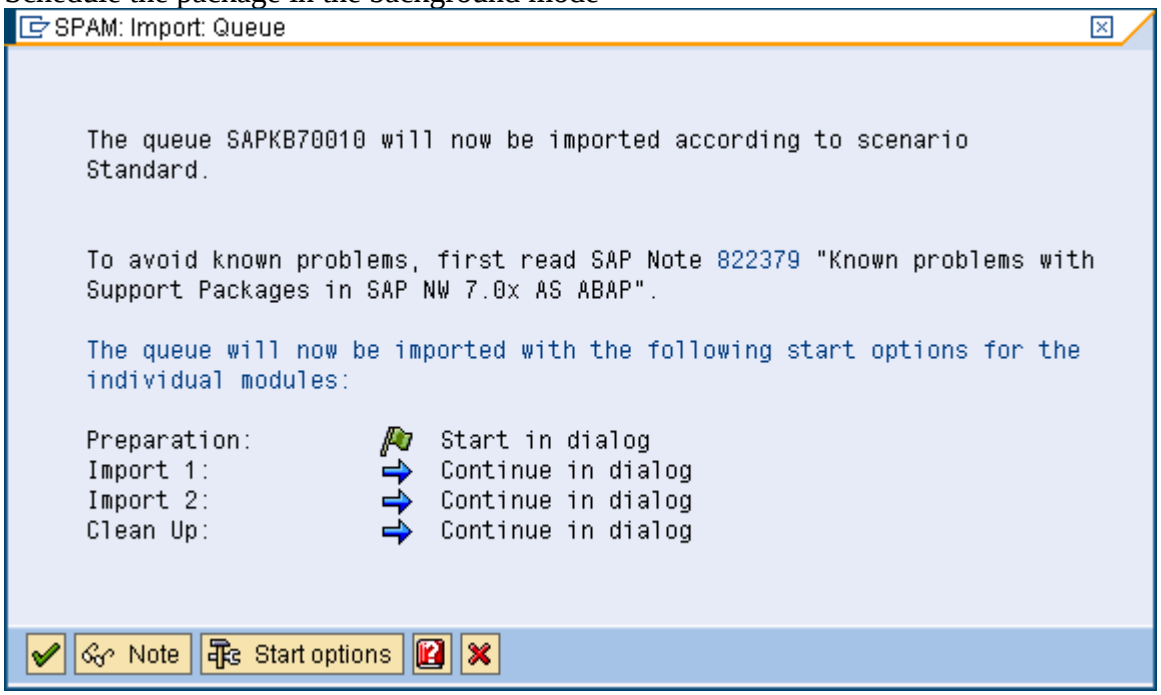



Select the package and click on “ok”→

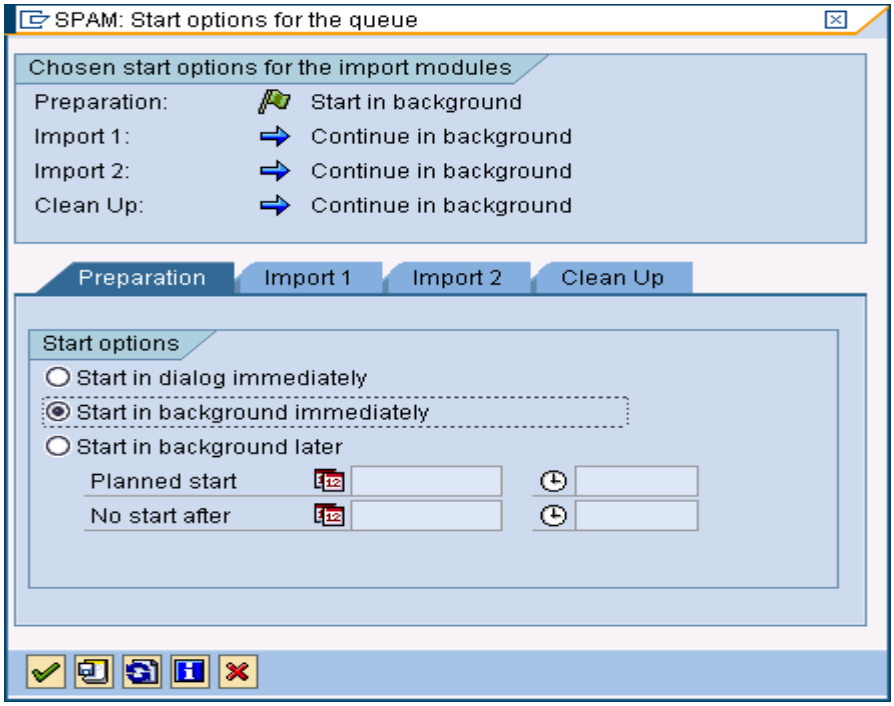



Click on “No”→

Schedule the package in the background mode

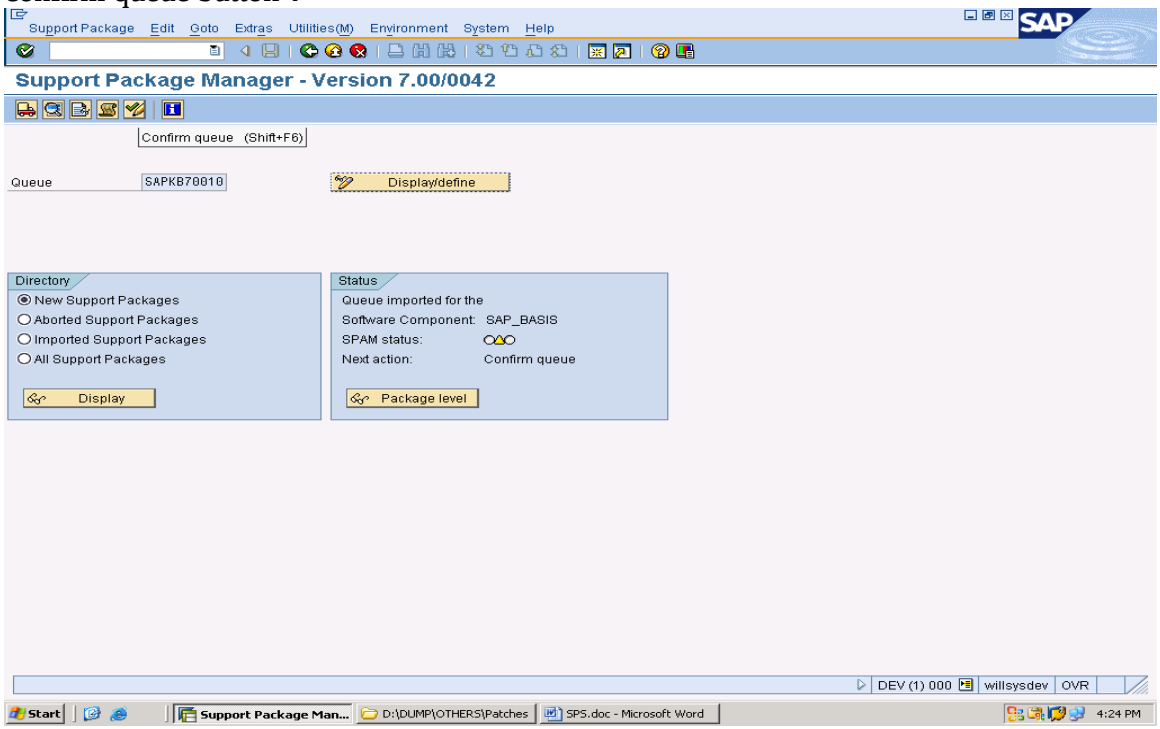


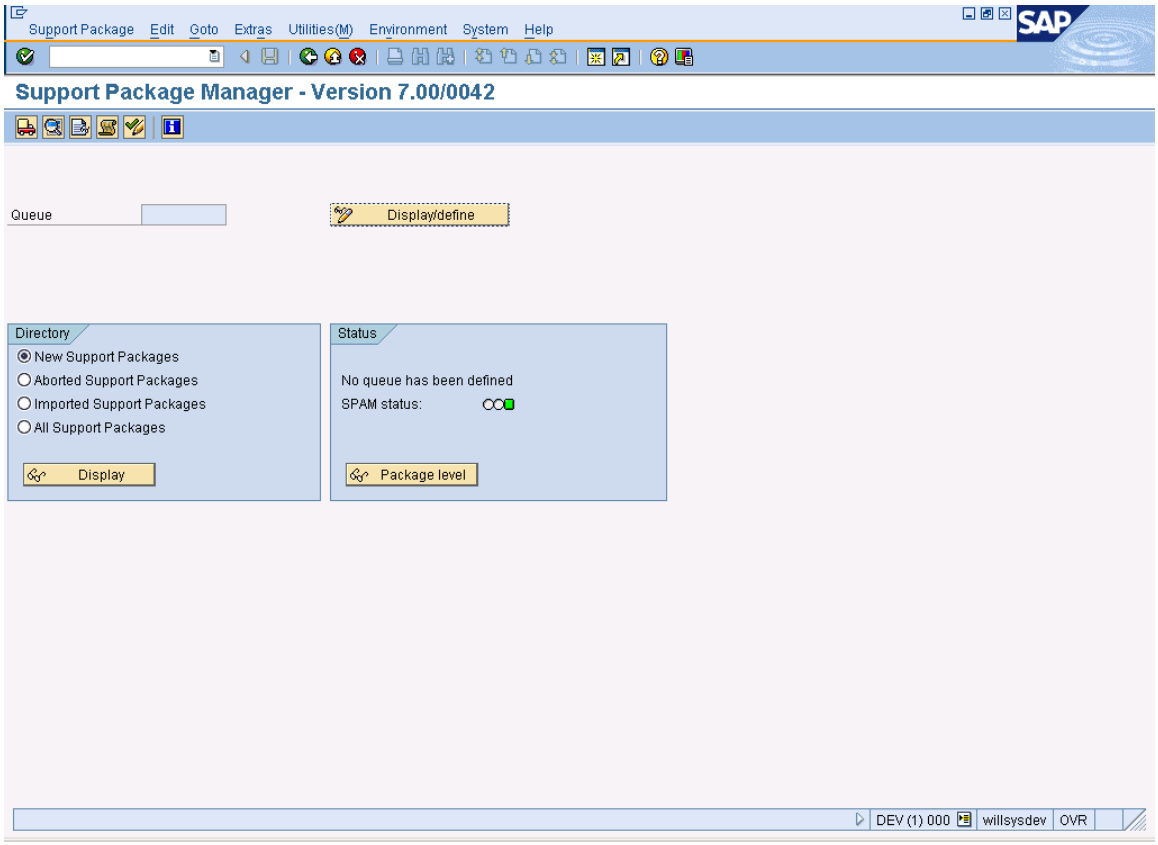

Click on “start Options”→



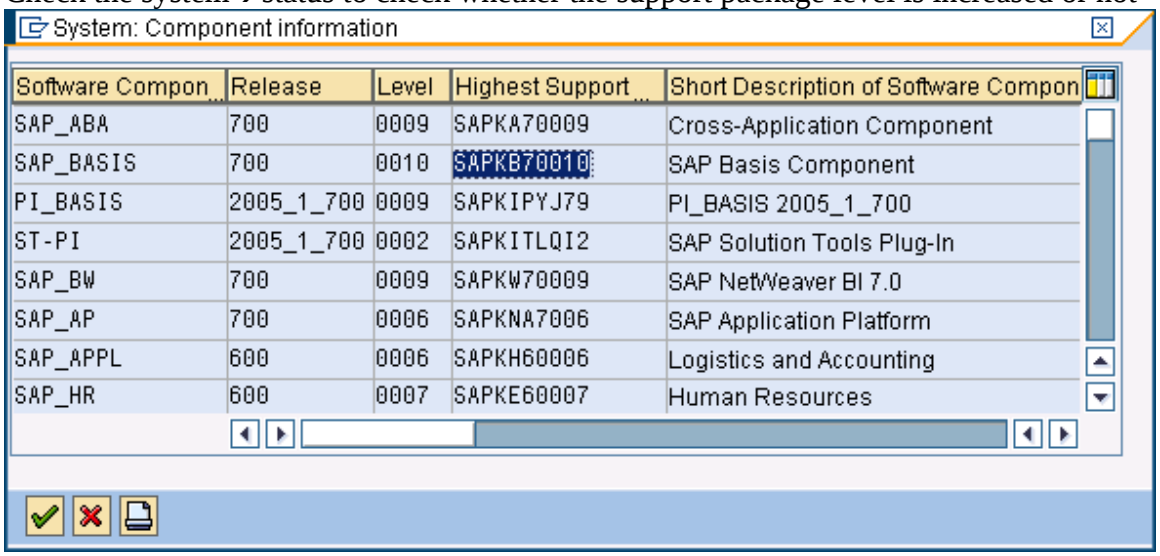

Select the option “start in background immediately”→Click on “ok” Button→

The support pack will be applied and finally it will ask to confirm the queue click on confirm queue button→






Support Package Deployed Successfully.
Do this procedure for all the packages
Check the system→status to check whether the support package level is increased or not



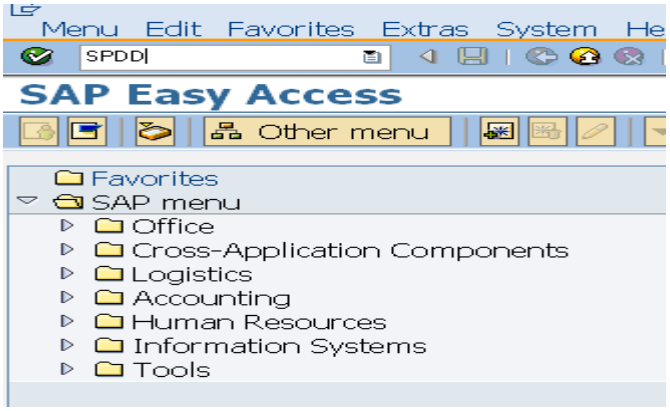

| Software Compon... | Release | Level | Highest Support... | Short Description of Software Compon |
|---|---|---|---|---|
| SAP_ABA | 700 | 0009 | SAPKA70009 | Cross-Application Component |
| SAP_BASIS | 700 | 0010 | SAPKB70010 | SAP Basis Component |
| PI_BASIS | 2005_1_700 | 0009 | SAPKIPYJ79 | PI_BASIS 2005_1_700 |
| ST-PI | 2005_1_700 | 0002 | SAPKITLQI2 | SAP Solution Tools Plug-In |
| SAP_BW | 700 | 0009 | SAPKW70009 | SAP NetWeaver BI 7.0 |
| SAP_AP | 700 | 0006 | SAPKNA7006 | SAP Application Platform |
| SAP_APPL | 600 | 0006 | SAPKH60006 | Logistics and Accounting |
| SAP_HR | 600 | 0007 | SAPKE60007 | Human Resources |

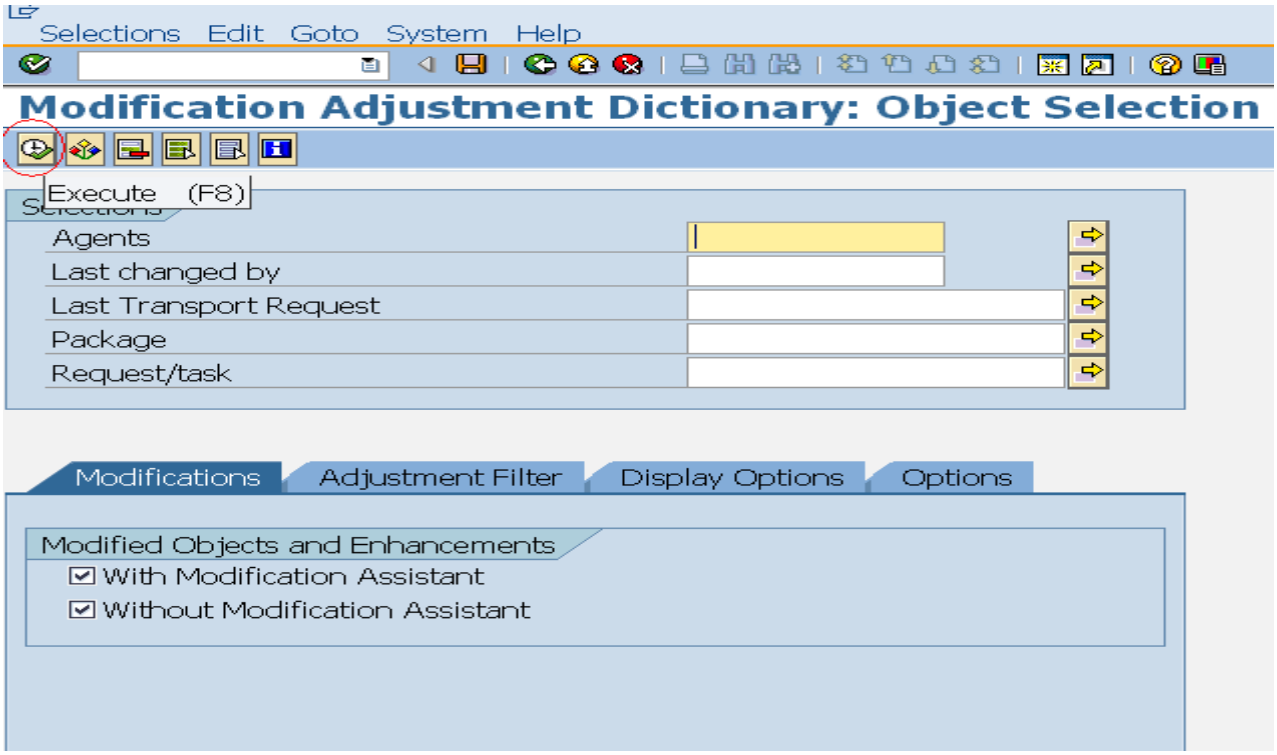
After Successfully deploying the support packages execute SPDD and SPAU for any Modifications

**SPDD**: - It is initiated whenever a Data Dictionary changes comes through a support packages.

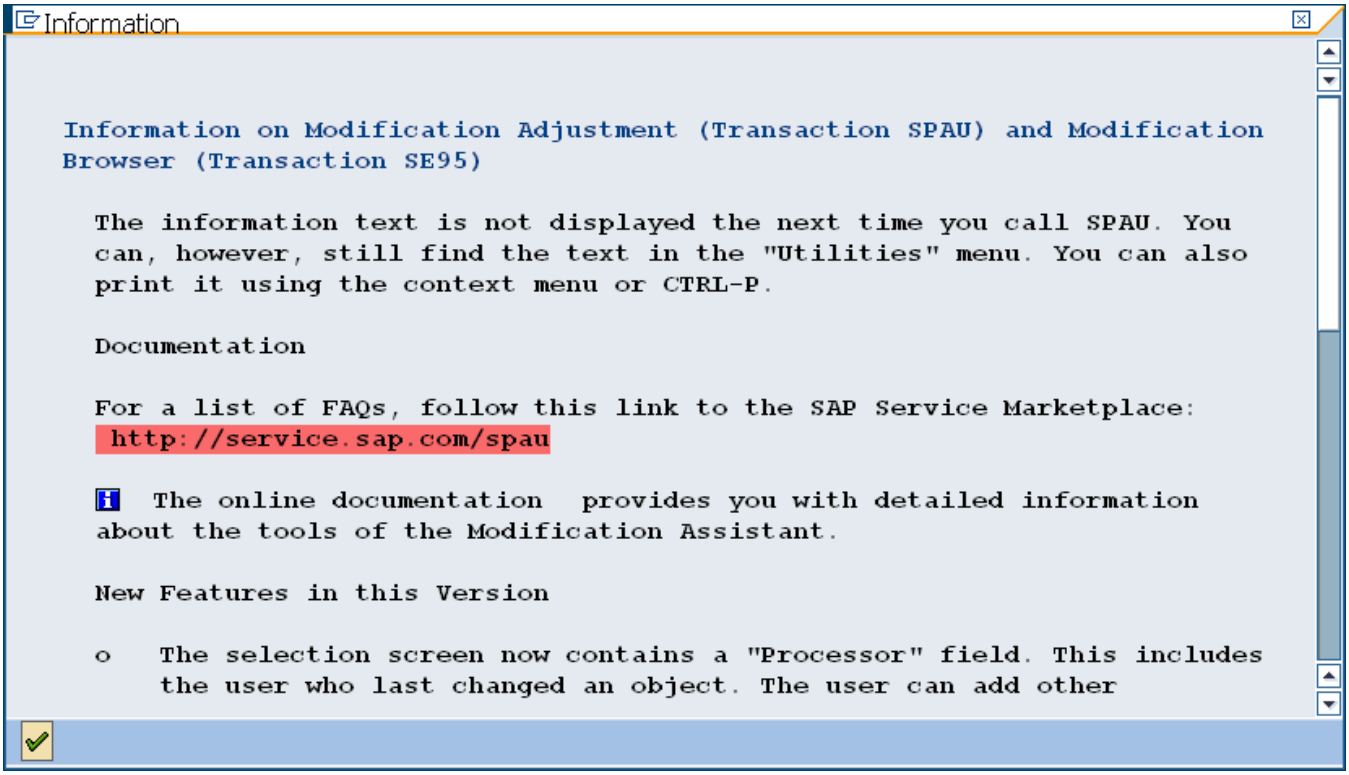
**SPAU**: - It is initiated whenever a Repository changes comes through a support packages.

Execute Tcode SPDD→



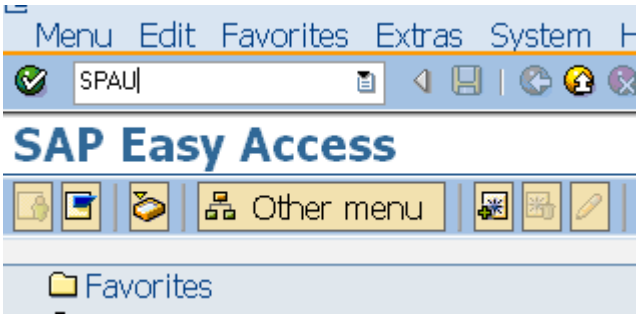



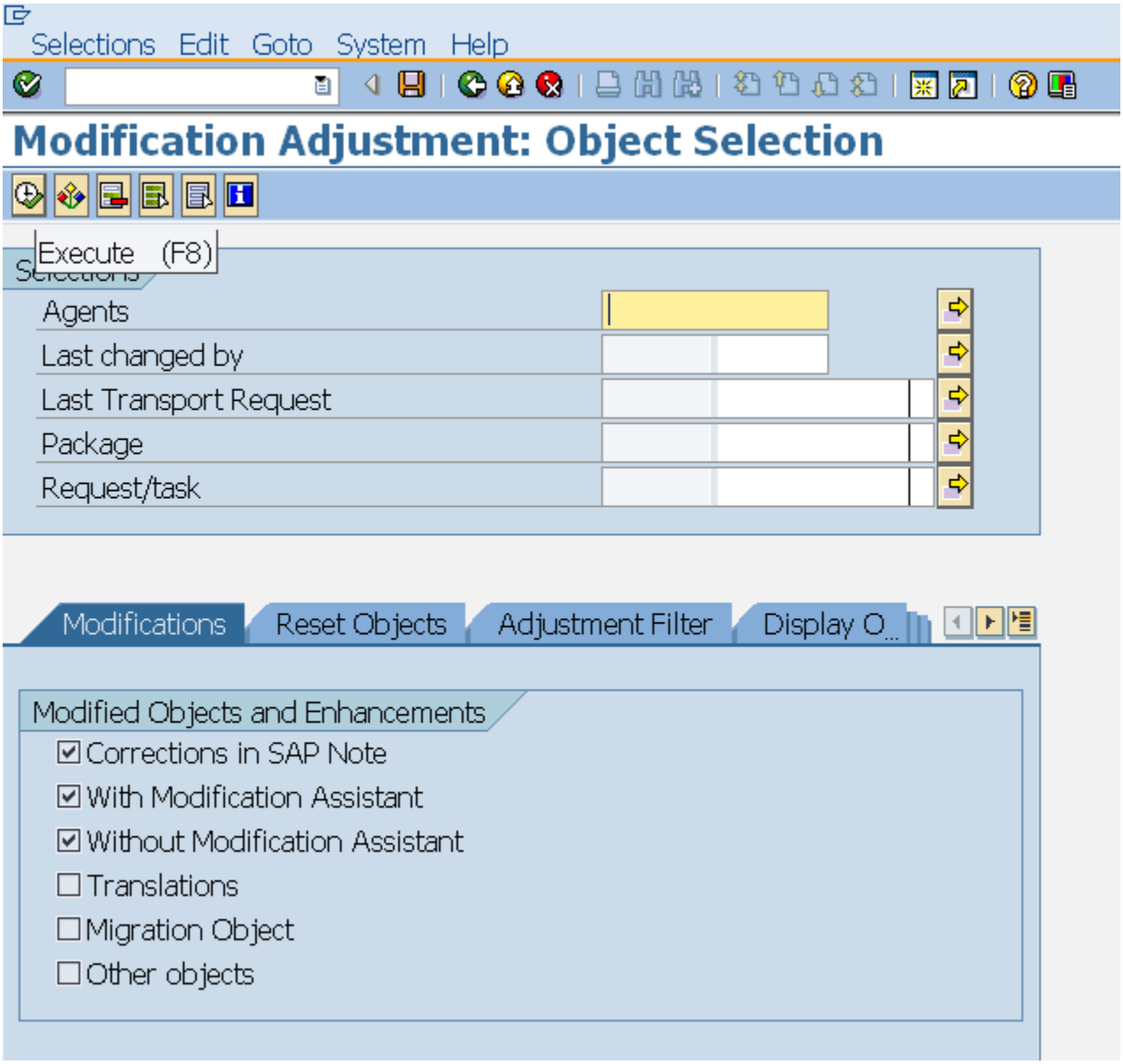
Click on execute




Click on ok to adopt the changes for the data dictionary objects

**SPAU:**






Click on execute to adjust the modifications to the repository objects

## Related Content:

www.help.sap.com

www.sdn.sap.com/irj/sdn/index.

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