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#### **APPLIES TO:**

Kernel Upgrade

#### SUMMARY

This article explains how to upgrade the Kernel on Windows Environment 32-Bit Machines

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#### COMPANY:

WILLSYS INFOSYSTEMS Pvt. Ltd.,

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# KERNEL UPGRADE

It is used to replace the existing Executables with a new set of executables. SAP Kernel Resides in /sapmnt/<SID>/exe (or) /usr/sap/<SID>/SYS/exe/UC/NTI386 for 32bit Machines /usr/sap/<SID>/SYS/exe/UC/NTAMD64 for 64bit Machines

- 1. While deploying support Packages a Pre-Requisite is Kernel needs to be upgraded.
- 2. During an SAP OS/DB upgrade (or) patching
- 3. SAP Recommendations to secure the system (or) Resolve a conflict (or) an issue.
- 4. we can check the Kernel Version by executing command "disp+work" cmd→disp+work on Windows Environment

# PROCESS:

1. Stop SAP System, Stop Services (SAPOSCOL, SAP<SID>\_00, All Oracle Services)



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	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	sqlplus / as sysdba
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	OracleDEV102iSQL	iSQL*Plus		Automatic	Local System			
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	Office Source Engine	Saves inst		Manual	Local System		
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	OracleDEV102TNSLi			Automatic	Local System		
	OracleJobSchedule			Disabled	Local System		
	CracleServiceDEV			Automatic	Local System		
	Performance Logs	Collects pe		Automatic	Network S		
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	Portable Media Seri	Retrieves t		Manual	Local System		
	Print Spooler	Manages al	Started	Automatic	Local System		
	Protected Storage	Protects st	Started	Automatic	Local System		
	Remote Access Aut	Creates a		Manual	Local System		
	Remote Access Co	Creates a		Manual	Local System		
	Remote Desktop H	Manages a		Manual	Local System		
	Remote Procedure	Serves as t	Started	Automatic	Network S		
	Remote Procedure	Enables re		Manual	Network S		
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	OracleDEV102TNSLi			Automatic	Local System		
	OracleJobSchedule			Disabled	Local System		
	CracleServiceDEV			Automatic	Local System		
	Performance Logs	Collects pe		Automatic	Network S		
	Ring and Play	Enables a c	Started	Automatic	Local System		
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	Remote Access Co	Creates a		Manual	Local System		
	Remote Desktop H	Manages a		Manual	Local System		
	Remote Procedure	Serves as t	Started	Automatic	Network S		
	Remote Procedure	Enables re		Manual	Network S		
	Nemote Registry	Enables re	Started	Automatic	Local Service		
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	Secondary Logon	The sharks	Started	Automatic	Stop		
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	System Even Notini	Enables a	Started	Automatic	Refresh		
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2. Backup The Kernel Directory for Rollback in any inconsistencies with the new kernel. (Copy the NTI386 or NTAMD64 folder into different Location)



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3. Check the present kernel Patch level by executing disp+work (or) login to the system and navigate to system → status →
 © System: Kernel information

System: Kernel information		$\times$
Kernel Information         Kernel release         Compilation         NT 5.0 2195 Set         Sup.Pkg lvl.         I75         ABAP Load         Cl.A. load	Database information         DB client lib.         DB releases         ORACLE 9.2.0.*         DBSL version         700.08         DBSL Patch Level	3 (: .*,
Mode opt Rsyn file	System information	
	SAP versions     700       Operating System     Windows NT 5.0	, W:
	OP release 5.2	
<ul> <li>✓ ×</li> </ul>		

📾 C:\WINDOWS\system32\cmd.exe							
Microsoft Windows [Version 5.2.3790] (C) Copyright 1985-2003 Microsoft Corp.							
C:\Documents and Settings\devadm>disp+work							
disp+work information							
kernel release	700						
kernel make variant	700_REL						
compiled on	NT 5.0 2195 Service Pack 4 x86 MS UC++ 13.10						
compilation mode	UNI CODE						
compile time	Aug 29 2006 00:18:21						
update level	0						
patch number	75						
source id	0.075						
supported environment							
database (SAP, table SVERS)	700						
operating system Windows NT 5.0 Windows NT 5.1		<b>_</b>					



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4. Download the Latest Kernel from SAP Service Market Place (SMP) specific to Release, OS, DB, Hardware and Unicode/Non-Unicode Execute the URL <u>www.service.sap.com/patches</u> to download the latest kernel and specify the S-USERID and Password

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6. Copy the executables into existing kernel (because only few of them are updated) i.e., overwrite the existing kernel executables.



- 7. Restart the services and SAP system i.e., start all the services that is mentioned in step1.
- 8. Check the kernel version by executing command 'disp+work' in command window/login in to system and check in system→status



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### $cmd \rightarrow disp+work$

📾 Select C:\WINDOWS\system32\cmd.exe								
Microsoft Windows [Version 5.2 (C) Copyright 1985-2003 Micros	2.3790] soft Corp.	<b>_</b>						
C:\Documents and Settings\devadm> <mark>disp+work</mark>								
disp+work information								
kernel release	700							
kernel make variant	700_REL							
compiled on TI386	NT 5.0 2195 Service Pack 4 ×86 MS UC++	13.1						
compilation mode	UNICODE							
compile time	Feb 28 2011 16:38:08							
update level	0							
patch number	291							
source id	0.291							
supported environment								
database (SAP, table SVERS)	700							
operating system Windows NT 5.0 Windows NT 5.1 Windows NT 5.2 Windows NT 6.0 Windows NT 6.1								
C:\Documents and Settings\deva	adm>_							
		-						

🕞 System: Kernel info	ormation		×
Kernel Information		Database information	
Kernel release	700	DB client lib.	OCI_10201_SHARE
Compilation	NT 5.0 2195 Serv…	DB releases	ORACLE 10.1.0.*
Sup.Pkg IvI.	291	DBSL version	700.08
ABAP Load	1563	DBSL Patch Level	290
CUA load	30		
Mode	opt		
Rsyn file		System information	
		IP address	192.168.100.151
		SAP versions	700
		Operating System	Windows NT 5.0, …
		OP release	5.2
			<b>×</b> ×

Kernel Upgrade is Done Successfully.



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