Windows 7 SP1 INSTALL GUIDE

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DATE: _	PC OWNER		PC NAME	<u> </u>	
OPERA	TING SYSTEM (Home Pren	nium / Professior	nal / Ultimate)		
SYSTE	M = 64-bit or 32-bit	CPU:		RAM =	GB
BeFoiTheBeIf yth	RAL TIPS & WARNINGS sure to read all the "Generallow this sequence to help a ese tasks are best done from fore installing SP1, check out have "Language Packs" from after SP1 is done. NOT install SP1 using the N	al Tips and Warn void problems bo m an ADMINISTF ut this site: http://l installed, you sh	poting the PC aft RATOR Account isc.sans.edu/diary.h ould consider re	ter installing SF t (except for CC html?storyid=10453 emoving them a	21. Eleaner scans) E nd reinstalling
PRE-IN	ISTALL TASKS:				
1) 🗆	Verify the current SP level= SP1 is already on, you are				
2) 🗆	RUN FULL-SCANS OF ALI	L YOUR ANTI-M	ALWARE PROC	RAMS.	
3) 🗆	CLEAN TEMP FILES: Run don't like TFC Temp File Cl ("Computer", then Right-click Driv	leaner or Cclean	er, then use the	Windows Clear	
4) 🗆	HARD-DRIVE ERROR SCA Computer > right-click Drive C: <check now="">. Choose ☑ bad sectors. Click <start> (Note: The chkdsk scan w</start></check>	ICON > Properties > Automatically fix +, OK, OK. Then,	· <i>Tools Tab).</i> Then x errors & ☑ Sca restart your PC	n, under Error-cl an for and atten to actually run	necking, click npt recovery o
5) 🗆	HARD-DRIVE FRAGMENT in defrag in the search bobbe OK, as Windows 7 does	x then select "Dis	sk defragmentor	". Fragmentatio	n will probably
6) 🗆	MAKE SURE YOU HAVE A	AT LEAST 8 GB	OF FREE DISK	SPACE.	
7) 🗖	SYSTEM PROTECTION: (☐ Make sure System Protection restore points (20-30 GE original setting after SP a small SSD as drive C.	ection is running B minimum). (Clic 1 installs OK, esp	on Drive C and k "Configure"). Placecially if you are	has plenty of ro an to return the e running	oom for SP1 size to its
	☐ CREATE A WINDOWS	RESTORE POIN	NT. (Click "Create")	·•	
8) 🗆	FULL IMAGE BACKUP: If a possible that your PC can Backup Recovery Boot CI sure all your data is backed be version 2010 or higher	n become unboot D actually boots and up in case of c	able after the ins and recognizes	s <i>tall</i> . Make sure all drives. Othe	your Image rwise, make

9) ☐ IE BROWSER HOME PAGE: Write down the URL of the IE8/9 Home page/s for use later if needed.
10) ☐ MSE: If Microsoft Security Essentials is installed, (Open MSE > click the down arrow to the right of Help > About Security Essentials), and make sure the version is 2.x. If you have the old version (1.x) of MSE installed, you should install version 2.x before installing SP1. (You can install MSE using Windows Update).
11) □ POWER OPTIONS: NOTE: The PC needs to powered on during the entire SP1 Installation. (Go to Control Panel > Power Options). Set the Power Scheme to "High Performance". (Then click Change Plan settings > Change Advanced Power settings). Go to the Sleep item and make sure the PC is set to NEVER for both sleep and Hibernate. NOTE: POWER CANNOT BE INTERRUPTED DURING THE ENTIRE INSTALL. If you have a battery Backup, make sure it is operational.
 12) □ WINDOWS UPDATE: □ Make sure the Windows Update settings are checked to include all "Recommended" updates and as well as updates for all "Microsoft products".
□ Repeatedly go to Windows Update and do a "Check for Updates" to install all available "Important/Recommended" updates EXCEPT SP1.
 Install all Optional and Hardware Driver updates. Test hardware after any Driver updates.
□ UPDATES KB 2502285, KB 2533552, and KB 2534366: Make absolutely sure these updates have been installed. Click "View Update History" to look for them. If KB2502285 is not there, make sure it is not "Hidden" by clicking "Restore Hidden Updates" and if it still is not there, then it probably does not apply to your machine. WARNING: A BSOD, (Blue Screen Of Death) during the reboot, can result if these updates are missing.
☐ Be sure to reboot again before continuing.
13) ☐ SYSTEM UPDATE READINESS TOOL: Download and run the correct tool for your system: http://windows.microsoft.com/en-US/windows7/What-is-the-System-Update-Readiness-Tool
14) ☐ SYSTEM FILE CHECKER: From the Administrator Account, open a Command Prompt window (Run as Administrator) and run: SFC /scannow
15) □ STOP ALL POSSIBLE PROGRAMS, before you install SP1. NOTE: After the System restarts, almost every closed program will start up again.
☐ Make sure to stop all "Resident Shields" & "Real-time Protections" from AVG, MSE, Trend Micro, Norton, etc. <i>These programs are the main cause of SP1 complications</i>
☐ Stop all Anti-virus, Anti-spyware, & Pop-up Blocker Programs. NOTE: <u>Not</u> stopping the anti-virus can lead to big problems.
☐ Stop (or Exit, Quit, Close) Skype, Windows Messenger, and any other programs that are running in the System Tray. (Right-click the System Tray Icons).
☐ Shutdown ZoneAlarm or any other 3rd party Firewall.
16) ☐ UNPLUG All flash-drives, external hard-drives & any other un-needed USB Devices.

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INSTALLATION TIPS - Read these before starting the SP1 update!.

- 1) Per the Windows Secrets website, it is better to install SP1 (KB976932) from either the downloadable standalone .exe file or DVD than by using regular Windows Update. If you download the exe file you must choose the correct file for your CPU (X86, X64, or IA64)
- 2) BE PATIENT! The total install time can exceed 60 minutes (NOTE: Operator responses may be required during the install process). The older the PC, the longer it will take.
- 3) DO NOT do any tasks or open any windows while the SP1 update is in progress.
- 4) DO joggle the mouse every few minutes just to make sure Windows 7 does not time out in any way.

INSTALL-SP1	
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- 1)

 Start the SP1 Update using the Standalone DVD (KB976932), the downloaded .exe file, or WINDOWS UPDATE. NOTE: If Autoplay is turned off, you will have to open the DVD and double-click "SETUP"
- 2) ☐ If asked, you can check "Automatic Restart" to save some manual interventions, then click "Install". If a password or user selection is required to get logged-in, you will have to be there to respond.
- 3) \square After the last restart, you should get a windows that says "Windows Service Pack 1 is now installed".
- 4) ☐ Do a System Restart and make sure all comes up clean.
- 5) ☐ Right-click Computer > Properties. Look at the Windows edition, and verify that it now says "Service Pack 1"

POST-SP1 TASKS

- 1) ☐ Windows Update: Repeatedly go to "(Windows Update" > Check for Updates), and install any new "Important" and "Recommended" updates.
- 2)

 Re-activate any desired Resident Shields. (MSE and/or your Antivirus Suite)
- 3) ☐ SECUNIA PSI: Run a scan and update any errors.
- 4) ☐ Re-set the Power Options back to their original settings.
- 5) \(\subseteq \text{ Change the Automatic Updates setting to "Automatic" or to the PC owner's preference
- 6) ☐ Return the System Protection Max Disk space usage back to that recorder earlier ____%
- 7) \square Now is a good time to do another image backup.

GENERAL TIPS & WARNINGS:

- 1) INSTALL FROM "WINDOWS UPDATE". This is the preferred method for installing SP1 if you are only updating one or two PC's. Note: Do not check the SP1 update unless you are ready to install it. If you download it, the Service Pack may start installing itself when you are not looking.
- 2) INSTALL FROM DVD: If you are installing SP1 on more than one PC, you can download the DVD ISO Image for Service Pack 1 (KB976932) from Microsoft and burn it to a DVD (2 GB), then install SP1 from the DVD. NOTE: The DVD works for both 64-bit and 32-bit systems..
- 3) The Windows Secrets website recommends manually downloading the latest Windows Update Readiness Tool from Microsoft. See: http://support.microsoft.com/kb/947821. Use it to test your PC.
- 4) Per ZDNET.COM, if your system has one of the following hotfixes installed 2406705, 979350 or 983534 then you are going to have problems installing SP1. Remove them first.
- 5) For more info, see the Microsoft knowledge base: http://windows.microsoft.com/en-SG/windows7/learn-how-to-install-windows-7-service-pack-1-sp1
- 6) BLUE SCREEN OF DEATH: If your install fails with a Blue Screen during the Restart process, be sure to write all the info shown on the Blue Screen before powering down the PC. First try booting with F8 and try to get back to the "Last good configuration". If that does not work, try getting into Safe-Mode to remove SP1. If that fails, hopefully you have made an image backup and you can use it to restore the system to operational status. If no image backup, call Microsoft Support for help with a "Repair" XP Install (1-866-234-6020), otherwise you will be reinstalling windows from Scratch.