



Intel® PRO/Wireless 2200BG Network Connection Software
Administrators Installation Guide

Revision 1.1
January 15, 2005



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Revision History

Revision	Changes	Date
1.0	Initial release	October 8, 2003
1.01	Added SSO= parameter	October 16, 2003
1.02	Updated options/parameters	October 24, 2003
1.03	Made minor content and editorial changes	November 26, 2003
1.04	Made minor content and editorial changes	December 2, 2003
1.05	Updated to support 8.1 installation	March 10, 2004
1.06	Made minor content and editorial changes	March 22, 2004
1.07	Made minor content change	March 31, 2004
1.08	Add SFS switch for prosetw.msi	April 23, 2004
1.1	Created ICS public version	January 15, 2005

Contents

1. INTRODUCTION	5
A.1 PURPOSE AND SCOPE.....	5
A.2 PRODUCT NOMENCLATURE.....	5
A.3 ENHANCEMENTS OF 8.1 INSTALLATION FROM 8.0 ERROR! BOOKMARK NOT DEFINED.	
A.4 DOCUMENT ORGANIZATION	5
B UNATTENDED INSTALLATION UNDER MICROSOFT WINDOWS XP PROFESSIONAL	5
B.1 INSTALLATION USING WINDOWS XP SETUP MANAGER (SETUPMGR.EXE)	5
B.2 COMMAND LINES FILE (CMDLINES.TXT)	5
B.3 UNATTEND (ANSWER) FILE	6
B.4 INF FILE CREATION	6
B.5 COPYING FILES FROM THE INTEL CD-ROM.....	7
B.6 EXECUTING THE UNATTENDED INSTALL USING THE OPERATING SYSTEM	7
C SILENT INSTALLATION UNDER MICROSOFT WINDOWS XP AND WINDOWS 2000	7
C.1 SILENT INSTALL SUMMARY	7
C.2 INTRODUCTION.....	7
C.3 OPERATING MODE	8
C.4 COMMAND LINE OPTIONS	8
C.4.1 <i>SetupWLD.exe (Silent Driver Install Program)</i>	8
C.4.2 <i>–Silent=xxx definitions.</i>	8
C.4.3 <i>iSetup.exe (Wrapper for Intel PROSet/Wireless Software MSI file)</i>	9
C.4.4 <i>–qI=XXX</i>	10
C.4.5 <i>PROSetW.msi (Intel PROSet/Wireless Software MSI file/Intel PROSet/Wireless Software install script)</i>	11
C.4.6 <i>Msiexec.exe (Microsoft Windows Installer MSI File Interpreter)</i>	14
D UNINSTALL AND UPGRADE	17
D.1 DRIVER UNINSTALL AND UPGRADE.....	17
D.2 INTEL® PROSET/WIRELESS SOFTWARE UNINSTALL AND UPGRADE	17
A INSTALL MESSAGES.....	ERROR! BOOKMARK NOT DEFINED.

1. Introduction

A.1 Purpose and Scope

This document presents an overview of methods for installing, uninstalling, and upgrading the Intel® PRO/Wireless 2200BG Network Connection Software supplied with the Intel PRO/Wireless 2200BG Network Connection wireless LAN MiniPCI adapter. Detailed instructions are supplied for unattended and silent installation of the driver and the Intel® PROSet/Wireless Software application, as well as for uninstalling and upgrading the driver and the Intel PROSet/Wireless application.

Applicable Intel® PROSet/Wireless Software version: 8.1.1

A.2 Product Nomenclature

Intel PRO/Wireless 2200BG Network Connection	The Intel wireless LAN MiniPCI adapter hardware that supports the IEEE 802.11b and 802.11g standards.
Intel PRO/Wireless 2200BG Network Connection Software	General name for driver and application software supplied with the product.
Intel PROSet/Wireless Software	The Intel network and profile management application and its graphical user interface.

Document Organization

The following topics are presented in this document:

- Unattended install under Microsoft* Windows* XP Professional
- Silent install under Windows XP and Windows 2000
- Driver uninstall and upgrade
- Intel PROSet/Wireless Software uninstall and upgrade

B Unattended Installation under Microsoft Windows XP Professional

Expected outcome: The operating system should install and load the drivers for the Intel PRO/Wireless 2200BG Network Connection without prompting the user during or after the unattended installation.

B.1 Installation Using Windows XP Setup Manager (Setupmgr.exe)

1. From the \Support\Tools directory of the Windows XP CD-ROM, double-click the Deploy.cab file to unzip the Setupmgr.exe application.
2. Copy the Setupmgr.exe application and paste it to the local hard drive.
3. Run Setupmgr.exe on the local drive to create an unattend file to be used to perform an unattended operating system installation.

B.2 Command Lines file (cmdlines.txt)

1. On the screen “Additional commands” (the last screen displayed when running Setupmgr.exe), add the following command:

```
rundll32.exe setupapi.dll, InstallHinfSection DefaultInstall  
128 \i386\%oem%\wm3a7oem.inf
```

2. This command will create the text file cmdlines.txt and place it in the \i386 directory of the distribution folder (i.e., \\directory\i386).
3. Setupmgr.exe creates two files, the unattend (answer) file in text format, and a batch file, which references the unattend file. These files will be placed in the distribution folder specified earlier in the unattend file creation routine.

B.3 Unattend (answer) file

The unattend file must include the following parameters. If you have an existing unattend file, be sure it includes all the items listed here.

```
[Data]  
  AutoPartition=1  
  MsDosInitiated="0"  
  UnattendedInstall="Yes"  
[Unattended]  
  UnattendMode=FullUnattended  
  OemSkipEula=Yes  
  OemPreinstall=Yes  
  OemPnPDriversPath=\i386  
  TargetPath=\WINDOWS  
[GuiUnattended]  
  AutoLogon=Yes  
  AutoLogonCount=1  
[Identification]  
  JoinWorkgroup=WORKGROUP  
[Networking]  
  InstallDefaultComponents=Yes  
  Adaptor1=params.WM3A2200  
  Adaptor2=params.WM3B2200  
  Adaptor3=params.WM3B2200  
  Adaptor4=params.PreAlpha2200  
[params.WM3A2200]  
  InfID="PCI\VEN_8086&DEV_1043&SUBSYS_00008086"  
[params.WM3B2200]  
  InfID="PCI\VEN_8086&DEV_1043&SUBSYS_27018086"  
  InfID="PCI\VEN_8086&DEV_1043&SUBSYS_27028086"  
  InfID="PCI\VEN_8086&DEV_1043&SUBSYS_27118086"
```

B.4 INF file creation

1. Create a file called wm3a7oem.inf in Notepad with the following contents:

```
[Version]  
Signature = "$CHICAGO$"  
[DefaultInstall]  
AddReg=WM3A2200_OEM.addreg  
[WM3A2200_OEM.addreg]  
HKLM,"SOFTWARE\Intel@",W22COIN_OEM,,"1"
```
2. Copy the wm3a7oem.inf file into the \i386\%oem\$ directory

B.5 Copying files from the Intel CD-ROM

Copy the following files from the \PROW2200\WINXP directory of the Intel PRO/Wireless 2200BG Network Connection Software CD-ROM into the \i386\%oem%\\$1\i386 directory:

W22NCPA.DLL
W22MLRes.DLL
W22n51.cat
W22n51.INF
W22n51.sys

Note: If the \i386\%oem%\\$1\i386 directory doesn't exist, create it.

B.6 Executing the unattended install using the operating system

- From the command prompt, change directories to the distribution directory (C:\ cd C:\directory)
- Execute the unattended install by either typing unattend.bat, or winnt32\unattend:unattend.txt.

C Silent Installation under Microsoft Windows XP and Windows 2000

C.1 Silent Install Summary

Silent install provides a method of installing system drivers for the Intel PRO/Wireless 2200BG Network Connection without user intervention.

C.2 Introduction

The standalone silent driver installation application SetupWLD.exe installs and uninstalls the miniport NDIS driver for Windows XP and Windows 2000. SetupWLD.exe and the corresponding SetupWLD.ini have the appropriate entries to perform the installation. These files are located in the respective driver folder of the Intel installation CD. This program works only for Intel manufactured wireless network adapters.

C.3 Operating Mode

This program can operate in the following modes:

- The wireless MiniPCI adapter is installed into a system with an old driver installed.
- The wireless MiniPCI adapter is installed into a system with the same driver installed.
- The wireless MiniPCI adapter is not installed in the system.

Based on the conditions above, the respective actions are:

- Silent driver upgrade or installation.
- Silent driver reinstallation.
- Unattended installation (prepare the system to accept the MiniPCI adapter and perform an unattended installation when the wireless MiniPCI adapter is plugged in)

When this application is run after canceling the PnP hardware wizard, it installs the drivers. (The PnP dialog displays when the hardware is inserted into a system with an OS, on which no Intel wireless LAN device is currently installed.) After the driver is copied onto the system, SetupWLD.exe triggers a rescan of the PCI bus to identify if a card is present and then installs the driver automatically.

C.4 Command Line Options

C.4.1 SetupWLD.exe (Silent Driver Install Program)

Options	Meaning
-silent or /Silent	Do not display any progress dialog boxes or error messages
-INI <full file name> or /INI <full file name>	Use the specified file name for INI information and not SetupWLD.ini in the current working directory
-NoReboot or /NoReboot	Forces no reboot even if reboot is required after the install
-Help or /Help	Displays help message
-Install or /Install	Install (if it exists, Reinstall will take place)
-Reinstall or /Reinstall	Remove existing driver (if exists) then Install new driver
-Remove or /Remove	Remove only
-Silent=xxx or /Silent=xxx	Used to select what prompts and status messages to present to the end customer.

C.4.2 –Silent=xxx definitions.

There are a series of messages that can be enabled or disabled based on desired results. These messages can be presented even when doing a silent install. In this case, the typical application windows are suppressed and only the progress and alert messages are presented.

The following table describes the behavior change implied by the use of a specific value.

Value	Significance
1	Suppress final message: Error in installation or removal of specific adapters Suppress termination message: OS not supported. Suppress termination message: Not running as administrator. Suppress termination message: Device installation in progress Suppress termination message: Unable to open .ini file.



	Suppress termination message: Incorrect command line option.
2	Suppress Status Dialog.
4	Reserved for future use everyone but Dell
8	Suppress prompt for driver reinstall (same version identified). Installation will continue.
16	Suppress termination message: No matching driver has been found / no HW installed.

Default behavior running without flags is equivalent to specifying 0 as the bitwise value.

Default behavior upon stating the **-Silent** option is equivalent to specifying the following bitwise value: $27 = 1+2+8+16$

C.4.3 iSetup.exe (Wrapper for Intel PROSet/Wireless Software MSI file)

iSetup.exe is designed to check for legacy hardware and software and take appropriate actions, such as stopping installation or removing legacy software. It is designed to check for the system's local language to ensure that the right transform is used.

Options	Meaning
All msixec.exe command line options and parameters compatible with: <code>msixec.exe /i PROSetW.msi TRANSFORM=xxxx.mst DOINSTALL=Yes</code> Remark: "xxxx" represents the language ID of the target OS. For example, USA English ID is 1033, Greek ID is 1032.	From the view of installation, iSetup.exe is equivalent to <code>msixec.exe /i PROSetW.msi TRANSFORM=xxxx.mst DOINSTALL=Yes</code> All other options following iSetup.exe should follow the above command line. The value for xxx.mst is automatically determined by iSetup.exe. By default, the SSO (Single Sign On) feature is not installed and reboot is not required.
<code>-qD=xxx</code>	See <code>-Silent=xxx</code> above.
<code>-qI=xxx</code>	Used to select what prompts and status messages to present to the end customer.
<code>-nodriver</code>	Isetup.exe will install both the driver and application together by default. This parameter will cause Isetup.exe to only install the application.

Notes:

1. If the target system is not clean (i.e., another Intel WLAN device has previously been installed or is currently installed) or has a non-English OS installed, it is strongly recommended that iSetup.exe be used to launch the MSI.
2. iSetup.exe accepts all Msiexec.exe command line options that are compatible with:
`Msiexec.exe /i PROSetW.msi TRANSFORM=xxxx.mst DOINSTALL=YES`.
3. By default SSO is not installed, but a user can choose to install it by using "iSetup.exe PLC=YES".

4. iSetup.exe cannot be wrapped in another wrapper where the return code is required.
5. No INI file is required for iSetup.exe.
6. If the options following iSetup.exe require a “=” sign, do not put a space before or after “=” but a space is required between options.

C.4.4 -qI=XXX

Use of the original silent flag (/q) has been preserved. Just that now that flag in fact simulates a combination of predefined bitwise combination.

If both /q and -qI=XXX will be used, the bitwise combination of /q will be disregarded. /q is also being passed to the installer, causing it to execute in silent mode. Therefore, such a combination (of -qI=XXX and /q), will eventually:

- Cause the installer to execute in silent mode, and
- Cause iSetup to execute according to the bitwise combination given by -qI=XXX.



The following table describes the behavior change implied by the use of a specific value.

Value	Significance
1	Suppress termination message: Failed uninstalling already installed PROSet Suppress termination message: Failed uninstalling already installed driver Suppress termination message: A completely newer [incompatible] family of PROSet exists which we cannot remove (E.g. Muroc) - when downgrade identified. Suppress termination message: Unable to launch PROSetW.msi installation Suppress termination message: Unable to launch mDriver.msi installation Suppress termination message: Not running as administrator. Suppress termination message: Incorrect command line option.
2	Suppress termination message: Clx1 card identified
4	Suppress prompt if Wired pre-Split PROSet identified. Installation will continue.
8	Reserved for future use
16	Suppress prompt for PROSet reinstall (same version identified). Installation will continue.
32	<i>Related to mDriver-only installation. Is not currently supported.</i>
64	<i>Related to mDriver-only installation. Is not currently supported.</i>
128	<i>Related to PROSetW un-installation. Is not currently supported.</i>
256	<i>Related to mDriver un-installation. Is not currently supported.</i>
512	<i>Related to mDriver installation. Is not currently supported.</i>
1024	Suppress PROSet installation Status Dialog.
2048	Suppress PROSet uninstallation Status Dialog.
4096	Suppress prompt for reboot at the end of the installation (if was required). If suppressed, reboot will take place automatically at the end of installation.

Default behavior is equivalent to specifying the following bitwise value:

$$1616 = 16+64+512+1024$$

Default behavior upon stating the /q option is equivalent to specifying the following bitwise

$$\text{value: } 7765 = 1+4+16+64+512+1024+2048+4096$$

C.4.5 PROSetW.msi (Intel PROSet/Wireless Software MSI file/Intel PROSet/Wireless Software install script)

Options	Parameters	Meaning
---------	------------	---------



Options	Parameters	Meaning
DOINSTALL=	Yes No	Yes allows the user to launch the MSI without iSetup.exe. This is the workaround to launch PROSetw.msi without any wrapper, so that it can take Msiexec.exe and other PROSetW.MSI command lines No (default)
SYSRESTART=	YES NO	YES (default) reboot will happen when other conditions meet, such as when PLC installed / Uninstalled. NO, there is definitely no reboot in any circumstances.
/q		This is a standard Msiexec.exe command line, but we use it to control launch of Intel Zero Configure. PROsetW.msi doesn't launch Intel Zero Configure.
GUIINSTALL=	YES NO	"YES" launches Intel Zero Configure. Before reboot. "NO" (default) does not launch Intel Zero Configure. After reboot. This option takes effect only if "/qn" used. For UI installation, Intel Zero Configure is always launched.
TRAYICON=	0 1	0 Intel PROSet/Wireless Software tray icon will not be launched after the install. 1 is the default.
MSZCFG=	0 1	0 disables Windows XP Zero Config. 1 is the default.
ZCFG_GUI=	YES NO	YES - checkbox is checked for "Display Available Networks when not associated" NO - checkbox is unchecked for "Display Available Networks when not associated" These override the default settings of the installer.
XPMSG_BOX=	YES NO	YES - checkbox is checked for "Notify when Windows XP ZC is enabled" NO - checkbox is unchecked for "Notify when Windows XP ZC is enabled" These override the default settings of the installer.
SFS	YES NO	YES – Installs SSO software but PLC and PTC are NOT enabled. The user is able to enable PTC from System Wide Option. PLC will need to be enable via add/remove programs. NO- default
PLC	YES NO	YES – installs GINA/software and enables PLC NO – default
PTC	YES NO	YES – installs software and enables PTC NO – default

Notes:

1. All options and parameters except “/qn” are case sensitive.
2. “DOINSTALL= Yes” allows MSI to be installed without using iSetup.exe. However, for a non-clean system (i.e., a system on which another Intel WLAN device has been previously installed or is currently installed), or a system with a non-English OS installed, it is strongly recommended that iSetup.exe be used to launch the MSI.
3. For installation on a system with a non-English OS, the transform option must be used. If the transform option is not used, installation screens and Add/Remove entries will not be localized.
4. The “TRAYICON=0” option removes the tray icon from the installation; it will no longer appear and it cannot be re-enabled.
5. If you use the “/qn” option without using “GUIINSTALL=YES”, the Intel Zero Configuration Service will not start until the system is rebooted, and you will not see the zero configuration pop-up box during the installation; this option is appropriate for factory installations.
6. If the options following iSetup.exe require a “=” sign, do not put a space before or after “=”; but a space is required between options.

C.4.6 Msiexec.exe (Microsoft Windows Installer MSI File Interpreter)

The following table describes the command line options for the Windows Installer program Msiexec.exe. The table and additional information can be found on the Microsoft website at

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/msi/setup/command_line_options.asp

Option	Parameters	Meaning
/i	Package ProductCode	Installs or configures a product.
/f	[p o e d c a u m s v] Package ProductCode	Repairs a product. This option ignores any property values entered on the command line. The default argument list for this option is 'pecms'. This option shares the same argument list as the REINSTALLMODE property. p - Reinstalls only if file is missing. o - Reinstalls if file is missing or an older version is installed. e - Reinstalls if file is missing or an equal or older version is installed. d - Reinstalls if file is missing or a different version is installed. c - Reinstalls if file is missing or the stored checksum does not match the calculated value. Only repairs files that have msidbFileAttributesChecksum in the Attributes column of the File table. a - Forces all files to be reinstalled. u - Rewrites all required user-specific registry entries. m - Rewrites all required computer-specific registry entries. s - Overwrites all existing shortcuts. v - Runs from source and re-caches the local package. Do not use the v reinstall option for the first installation of an application or feature.
/a	Package	Administrative installation option. Installs a product on the network.
/x	Package ProductCode	Uninstalls a product.
/j	[u m]Package or [u m]Package /t Transform List or [u m]Package /g LanguageID	Advertises a product. This option ignores any property values entered on the command line. u - Advertises to the current user. m - Advertises to all users of machine. g - Language identifier. t - Applies transform to advertised package.

Option	Parameters	Meaning
/L	[i w e a r u c m o p v x + !]Logfile	<p>Specifies path to log file. Flags indicate which information to log.</p> <ul style="list-style-type: none"> i - Status messages. w - Nonfatal warnings. e - All error messages. a - Start up of actions. r - Action-specific records. u - User requests. c - Initial UI parameters. m - Out-of-memory or fatal exit information. o - Out-of-disk-space messages. p - Terminal properties. v - Verbose output. x - Extra debugging information. Only available on Windows Server 2003. + - Append to existing file. ! - Flush each line to the log. *** - Wildcard, log all information except for the v and x options. To include the v and x options, specify "/!*vx".
/m	filename	<p>Generates an SMS status .mif file. Must be used with either the install (-i), remove (-x), administrative installation (-a), or reinstall (-f) options. The ISMIF32.DLL is installed as part of SMS and must be on the path.</p> <p>The fields of the status mif file are filled with the following information:</p> <ul style="list-style-type: none"> Manufacturer - Author Product - Revision Number Version - Subject Locale - Template Serial Number - not set Installation - set by ISMIF32.DLL to "DateTime" InstallStatus - "Success" or "Failed" Description - Error messages in the following order: <ol style="list-style-type: none"> 1) Error messages generated by installer. 2) Resource from Msi.dll if installation could not commence or user exit. 3) System error message file. 4) Formatted message: "Installer error %i", where %i is error returned from Msi.dll.
/p	PatchPackage	<p>Applies a patch. To apply a patch to an installed administrative image you must combine options as follows:</p> <p>/p <PatchPackage> /a <Package></p>



Option	Parameters	Meaning
/q	n b r f	Sets user interface level. q , qn - No UI qb - Basic UI . Use qb! to hide the Cancel button. qr - Reduced UI with no modal dialog box displayed at the end of the installation. qf - Full UI and any authored FatalError, UserExit, or Exit modal dialog boxes at the end. qn+ - No UI except for a modal dialog box displayed at the end. qb+ - Basic UI with a modal dialog box displayed at the end. The modal box is not displayed if the user cancels the installation. Use qb+! or qb!+ to hide the Cancel button. qb- - Basic UI with no modal dialog boxes. Please note that /qb+- is not a supported UI level. Use qb-! or qb!- to hide the Cancel button. Note that the ! option is available with Windows Installer version 2.0 and works only with basic UI. It is not valid with full UI.
/? or /h		Displays copyright information for Windows Installer.
/y	module	Calls the system API DllRegisterServer to self-register modules passed in on the command line. For example, msiexec /y MY_FILE.DLL. This option is only used for registry information that cannot be added using the registry tables of the .msi file.
/z	module	Calls the system API DllUnRegisterServer to unregister modules passed in on the command line. For example, msiexec /z MY_FILE.DLL. This option is only used for registry information that cannot be removed using the registry tables of the .msi file.
/c		Advertises a new instance of the product. Must be used in conjunction with /t. Available starting with the Windows Installer version shipped with the Windows Server 2003 family and Windows XP SP1.
/n	ProductCode	Specifies a particular instance of the product. Used to identify an instance installed using the multiple instance support through a product code changing transforms. Available starting with the Windows Installer version shipped with the Windows Server 2003 family and Windows XP SP1.

Notes:

1. Intel PROSet/Wireless Software will install regardless of the presence or absence of Intel PRO/Wireless 2200BG Network Connection hardware in the system.
2. Intel PROSet/Wireless Software will not install if Intel PRO/Wireless 2100 or 2100A LAN MiniPCI Adapter hardware is present in the system.

D Uninstall and Upgrade

D.1 Driver Uninstall and Upgrade

To uninstall the driver

1. From Device Manager go to Network Adapters and select Intel PRO/Wireless 2200BG Network Connection.
2. Right-click the device name and select Uninstall or go to Properties, Driver, Uninstall.
3. The driver will be uninstalled

To upgrade the driver

1. From Device Manager go to Network Adapters and select Intel PRO/Wireless 2200BG Network Connection.
2. Right-click the device and select Update Driver... or go to Properties, Driver, Update Driver...
3. Follow the onscreen instructions to upgrade the driver.

To uninstall the driver silently (performs complete cleanup)

Run “SetupWLD.exe –Remove -Silent” and the driver will be uninstalled silently.

D.2 Intel® PROSet/Wireless Software Uninstall and Upgrade

To uninstall Intel PROSet/Wireless Software

1. From the Windows desktop select Start, Settings, Control Panel.
2. Click Add or Remove Programs.
3. Select Intel PROSet/Wireless Software and click the Remove button.
4. If network connection driver has been installed in combination with software installation (the “-nodriver” flag was not specified for iSetup), then the driver will also be removed.

To uninstall Intel PROSet/Wireless Software “silently”

1. To uninstall Intel PROSet/Wireless Software "silently," use the following command line string:

```
Msiexec.exe /x PROSetW.msi /qn
```

2. If network connection driver has been installed in combination with software installation (the “-nodriver” flag was not specified for iSetup), then the driver will also be removed.

For more information on Msiexec.exe, see Section 3. Silent Installation under Microsoft Windows XP and Windows 2000.

To upgrade Intel PROSet/Wireless Software

To upgrade Intel PROSet/Wireless Software, install the new version. Old version will be automatically removed during the process.