

# ISTS Installation guide for Windows Vista Business with SP1

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## Windows Vista Business with SP1 Installation Guide

Full Install only (not upgrade).

*These instructions apply to the Volume Licensed version of this software only and are not recommended for use with OEM or retail versions of Windows Vista Business*

*The volume licensed version is only to be installed on university owned (Blue Plated) equipment*  
<http://www.unisa.edu.au/ists/Staff/Purchasing/Hardware/blueplate.asp>

### Minimum Hardware Requirements

Hardware Component	Minimum recommended requirement
CPU	Minimum: 2.8Ghz  Recommended: 3 GHz 32-bit (x86) or 64-bit (x64) processor
Memory	Minimum: 1GB MB  Recommended: 2 GB (4 GB maximum) of RAM.  For additional software requirements the University recommends 2 GB of RAM
Free hard disk space	Minimum: 160 GB with at least 80 GB free on the C Drive  The University recommends using two partitions ensuring the C Drive is a minimum of 80GB.
Display	Super VGA (SVGA) display adapter and Plug and Play monitor  Recommended: Support for DirectX 9 graphics with: <ul style="list-style-type: none"> <li>o WDDM Driver</li> <li>o 128 MB of graphics memory (minimum)</li> <li>o Pixel Shader 2.0 in hardware</li> <li>o 32 bits per pixel</li> </ul>
I/O devices	Keyboard, mouse, or other pointing device.
Other drives	Minimum: DVD-ROM drive (12x or faster) (required for DVD installations). High density 3.5" Floppy Disk Drive may be required.  Recommended: DVD-ROM drive
Optional components	Network adapter (required for network installation), network cable.

## Pre Installation

Check that your hardware (eg. Network card, video card etc.) is compatible with Windows Vista Business. Consult with your local IT Support staff or online at: <http://www.microsoft.com/hcl>

ISTS recommends partitioning the hard drive into at least two partitions (C and D drive). Create C drive as the active partition formatted in the NTFS file system, D drive should also be formatted in NTFS. The capacity of the hard drive will determine what size to create partitions. UniSA recommends at least 80GB for the C Drive. The remaining space should be partitioned as the D Drive. Set the C: drive as the active partition for the system to boot from. If you are installing by booting from the Windows Vista Business DVD-ROM, partitioning and formatting can be done during the actual installation.

**All** application programs should be installed under the C:\Program Files directory and **not** to the root of C:\

*Note: Installing via a network share requires the hard disk to be partitioned and formatted before commencing the installation.*

During the setup you will be asked to provide a name for your computer. This name is based upon your school or unit ORG2 code and the blue or red plate number of the machine. For example, an ORG2 code of "ITU" and a blue plate number of 222222 will give you a computer name of "ITU222222". If you are unfamiliar with your ORG2 code, please consult the list at the end of this document. (Page 17)

## Installation

### Booting and Starting up Windows Vista Business Setup

**Note:** The current version available to the University includes Service Pack 1 pre-applied as part of the installation.

#### Preferred Method

Boot from a WinPE 2.0 CD from WAIK with network drivers loaded. Map to the SOFTWARE server for the Windows Vista Business setup files (<\\software\WinVista\i386>)  
This method requires that an active NTFS partition has already been created on your hard drive.

e.g.

```
> net use Z: \\software\WinVista
```

Then change directory to the I386 folder

```
> Z:
```

Run the Windows Vista Business setup program, this will copy the setup files to the hard disk. Type the following to run from the above directory.

```
> setup
```

Reboot when asked and follow the instructions as outlined below.

**Note:** You will need to arrange access to the Windows Vista Business share if you don't already have access (most IT Support staff have access), by ringing the IT Help Desk on Ext. 25000.

**Note:** This is the preferred option as it allows the use of customised install scripts (answer files), that automatically configure the region, language, time zone, install Services Packs, Hotfixes etc.

#### Alternate Method

Install from a bootable DVD-ROM if your computer is capable of booting from DVD. Insert DVD-ROM and the Windows Vista Business installation will start as outlined below.

## Welcome to Setup

At the initial Install Windows Screen, ensure “Language to install” is set to **English**, change the “Time and Currency format” to **English (Australia)** and ensure “Keyboard or Input method” is set to **US**.

Press **Next**.

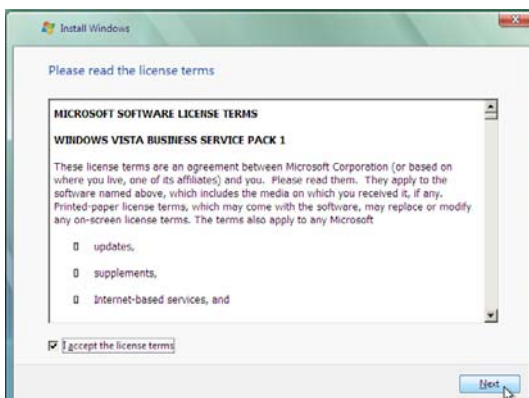


Press **Install Now**.



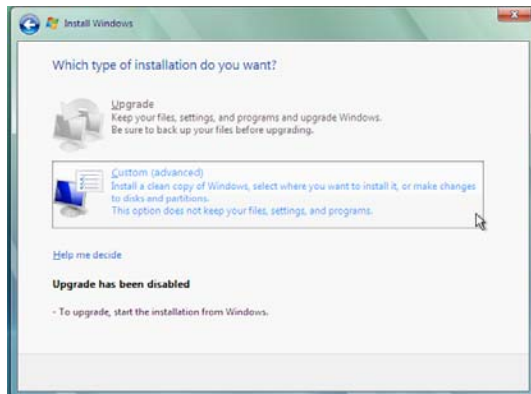
## License Agreement

Select “I accept the license terms” and press **Next**.



## Type of Installation

Select **Custom (advanced)**.



## Partition Table

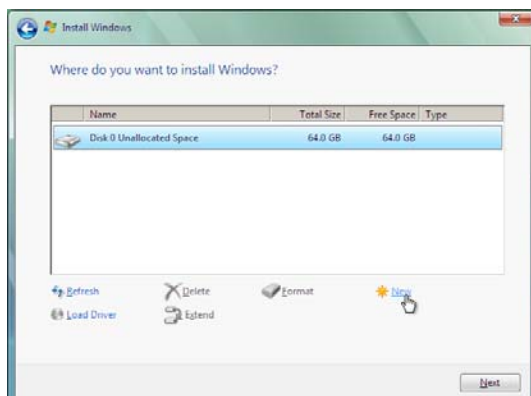
If you have booted from the Windows Vista Business DVD, will you be presented with a list of the existing partition(s) on your machine. **These directions are for a clean install only** therefore we will delete all of them, and create a new partition.

Note: **Any data on the disk will be destroyed by this process** – please be certain you have backed up all critical data elsewhere if you are performing a clean re-install.

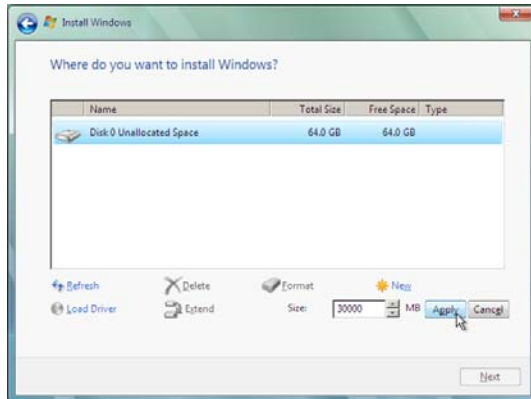
For each partition on the machine, click the partition and press **Delete**. You will be asked to confirm this. Press **OK**. Repeat this process for every partition until the only entry is for 'Unallocated Space'.

Now you need to make a new partition to hold the Windows Vista Business installation. How large you make this partition is a matter of personal preference, but it needs to be at least 80 GB for the University desktop environment, as mentioned previously.

To create the partition, press **New**.



Enter the size of the partition you wish to create in MB (so, 40000 = 40 GB), and press **Apply**.



You should now see the partition you just created. If there is more space, you can leave it unpartitioned for now; you can partition it later when the operating system is installed. Ensure the partition you created is highlighted and press **Next** to install Windows Vista Business.

## File Copying

The install program now copies much of the DVD-ROM to disk, configures a few things in the background, and reboots the system automatically.

The system comes back up and continues the installation and configuration of your system.

## Set up Windows

Once the machine has rebooted for the final time, a Choose a Username and Picture splash screen comes up, type in the following details.

Username: **build**

Password: **password**

Hint: **build**

Press **Next**.

## Computer Name

The **Computer name** is composed of your ORG2 code and asset number. Note this must match the DNS Name assigned to your system when an IP Address was allocated to it.

**Assign the Computer Name** <ORG2><ASSET#>

Click **Next**.

## Help Protect Windows Automatically

Select the following default settings.

Use recommended Settings

Install important updates only

Ask me later

## Time and Date Settings

Select (GMT+09:30) Adelaide

Ensure date is correct.

Press **Next**

Press **Start**

## Please wait while Windows checks your computer's performance

Several splash screens will be displayed while Windows Vista Business loads.

## Logon

The Windows Vista Business logon screen will be displayed with the "build" username selected. Enter in your password **password** and click **enter**.

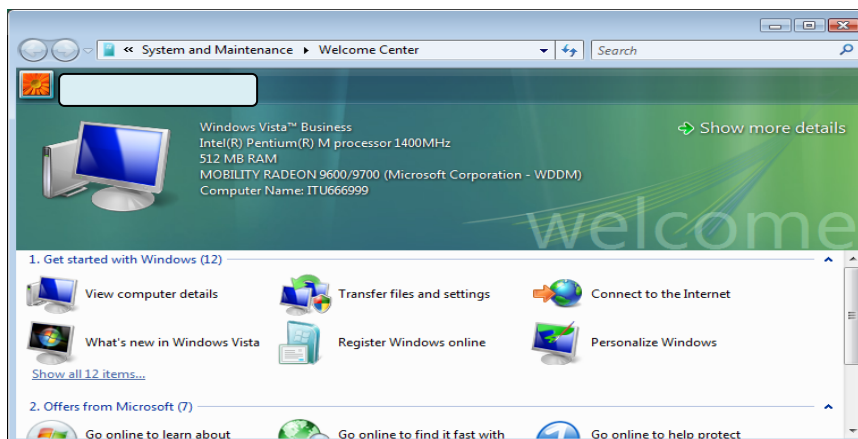
## Join UniSA Domain

If you are connected to the UniSA network, follow the following steps to join the domain. Please note- Only a **local administrator** of the machine will be able to access the computer settings due to the User Account Control (UAC See Page 10 for more details).

**Note:** Remember to move the machine account to the correct OU in Active Directory.

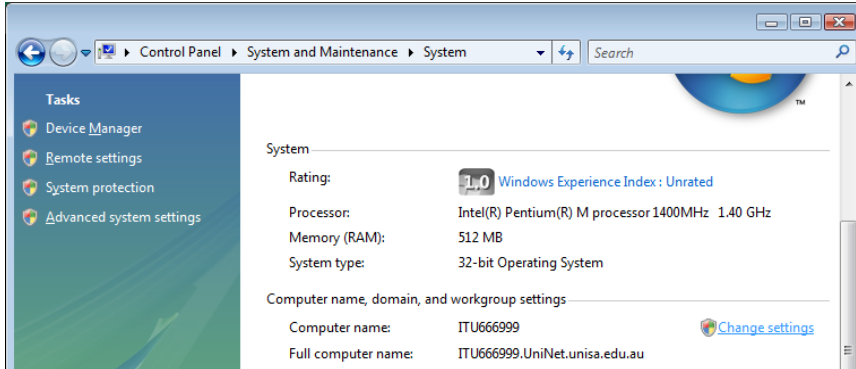
On first logon, the Welcome Centre window will pop up. To stop this, uncheck the Run at Startup box.

To connect to the UniSA Network, double click on **View computer details**.



**Note:** Do not rename or disable the local “Administrator” account. ISTS plan to use a separate OU that does not have that particular GPO applied.

Press **Change Settings**.

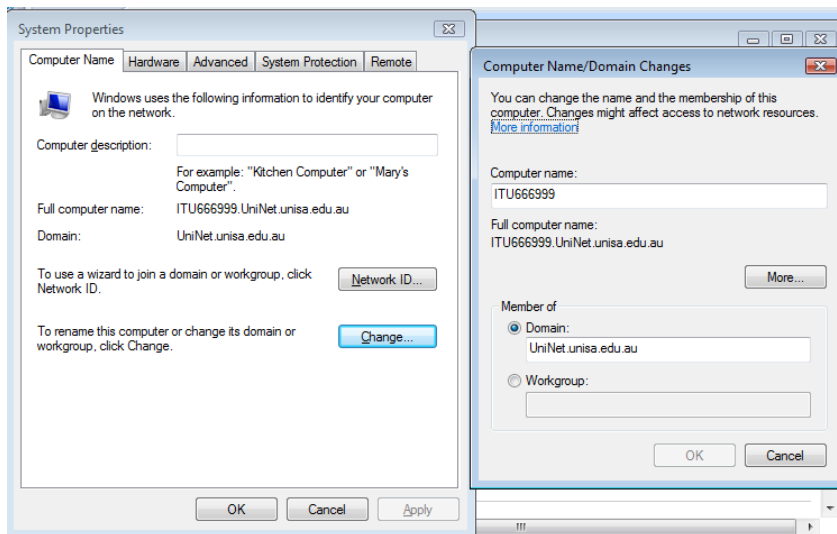


At this point you will be prompted to enter your credentials to access this area.

Enter username **Build** Password **password**

On the computer name tab press **Change**.

Select **Domain** and type **UNINET**



This will prompt you to enter a username and password that has permission to join machines to the UNINET domain.

Enter credentials and press **OK**.

## User Access Control

The User Access Control causes **all** accounts to run in the Standard User Account mode and to “escalate” when it needs to perform a function that requires elevated privileges (administrator account). This can result in many password prompts for tasks that our clients are used to being able to perform. UniSA has decided to turn this feature off by default. Testing has revealed that turning the UAC off via the GUI doesn’t disable all the features. To manually configure this complete the following steps. We recommend creating this as a Group Policy Object to apply to all the workstations in your OU.

For standard users this would be the preferred configuration. For users that require the ability to run applications/services with elevated privileges (eg. itu-adm accounts) this configuration will NOT work. Please see the second table for the settings that will allow these features.

To manually disable this feature go to **Start > Run**.

Type: **secpol.msc**

Select **Local Policies** then **Security Options**.

In the Right hand window scroll to the bottom where the User Access Control policies reside.

Set the policies to the following table.

User Access Control	Admin Approval Mode for the Built-In Administrator Account	<b>Disabled</b>
User Access Control	Allow UIAccess applications to prompt for elevation without using the secure desktop	<b>Disabled</b>
User Access Control	Behaviour of the elevation prompt for Administrators in Admin Approval Mode	<b>Elevate without prompting</b>
User Access Control	Behaviour of the elevation prompt for standard users	<b>Prompt for credentials</b>
User Access Control	Detect application installations and prompt for elevation	<b>Disabled</b>
User Access Control	Only elevate executables that are signed and validated	<b>Disabled</b>
User Access Control	Only elevate UIAccess applications that are installed in secure locations	<b>Disabled</b>
User Access Control	Run all administrators in Admin Apporval Mode	<b>Disabled</b>
User Access Control	Switch to secure desktop when prompting for elevation	<b>Disabled</b>
User Access Control	Virtualize file and registry write files to per-user location	<b>Enabled</b>

*NOTE: If service pack 1 is not installed, this configuration may cause issues installing printer drivers.*

To be able to run utilities such as Windows Server 2003 Admin Tools you will need to have UAC turned ON with Behaviour of the elevation prompt for Administrators in Admin Approval Mode set to **Prompt for credentials**.

*NOTE: This configuration results in Vista prompting for authentication for all administrative tasks. This may be unsuitable for some users.*

User Access Control	Admin Approval Mode for the Built-In Administrator Account	<b>Disabled</b>
User Access Control	Allow UIAccess applications to prompt for elevation without using the secure desktop	<b>Enabled</b>
User Access Control	Behaviour of the elevation prompt for Administrators in Admin Approval Mode	<b>Prompt for credentials</b>
User Access Control	Behaviour of the elevation prompt for standard users	<b>Prompt for credentials</b>
User Access Control	Detect application installations and prompt for elevation	<b>Disabled</b>
User Access Control	Only elevate executables that are signed and validated	<b>Disabled</b>
User Access Control	Only elevate UIAccess applications that are installed in secure locations	<b>Disabled</b>
User Access Control	Run all administrators in Admin Approval Mode	<b>Enabled</b>
User Access Control	Switch to secure desktop when prompting for elevation	<b>Enabled</b>
User Access Control	Virtualize file and registry write files to per-user location	<b>Enabled</b>

## KMS Licence Activation for Windows Vista Business

Windows Vista is set to automatically update after the 3 day grace period.

*NOTE: You need to be a local administrator of the machine to perform this task. A domain admin account will be unable to do this if it is not also a local administrator.*

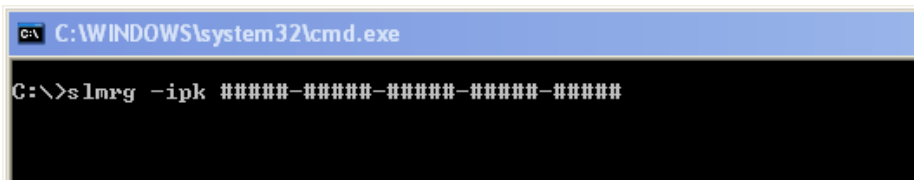
If it fails to do so, run the following commands.

Go to **Start** then in the run command type **cmd**.

In the command prompt type: **slmgr -ipk #####-#####-#####-#####-#####**

**KMK key is located in [\\software\licences\WIN\Microsoft\WindowsVista\\_Win\\_Key.txt](\\software\licences\WIN\Microsoft\WindowsVista_Win_Key.txt)**

Press **Enter**.

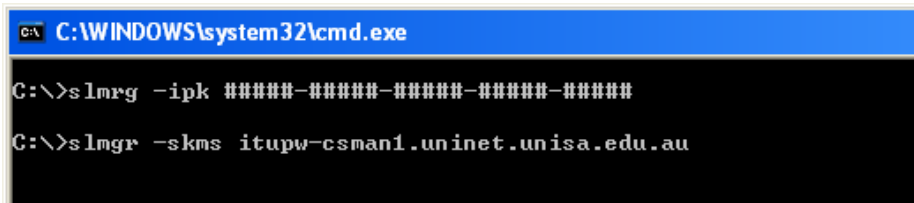


```
C:\> C:\WINDOWS\system32\cmd.exe
C:\>slmgr -ipk #####-#####-#####-#####-#####
```

You will then see a pop up stating the product key has been installed successfully.



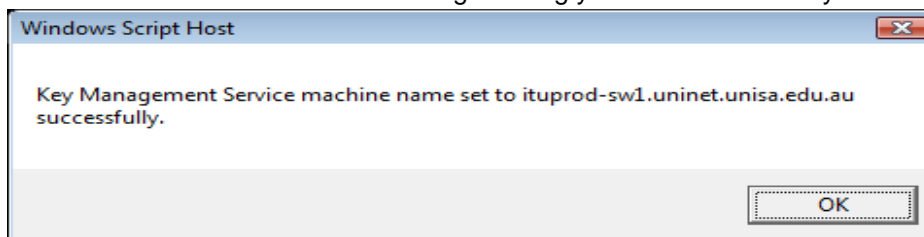
Then type: **slmgr -skms itupw-csman1.uninet.unisa.edu.au**



```
C:\> C:\WINDOWS\system32\cmd.exe
C:\>slmgr -ipk #####-#####-#####-#####-#####
C:\>slmgr -skms itupw-csman1.uninet.unisa.edu.au
```

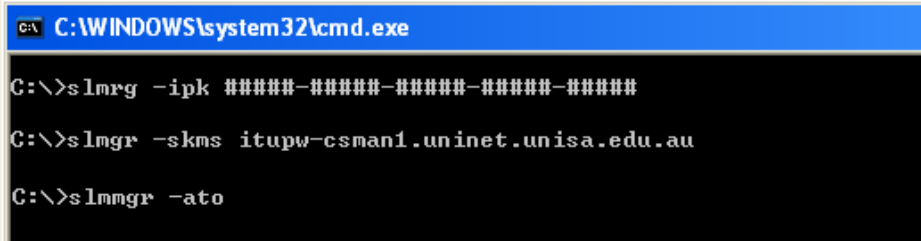
Press **Enter**.

You will receive a confirmation message stating you have successfully set the KMS Server.



Activate Windows.

Type: **slmgr -ato**



```
C:\> C:\WINDOWS\system32\cmd.exe  
C:\>slmgr -ipk #####-#####-#####-#####-#####  
C:\>slmgr -skms itupw-csman1.uninet.unisa.edu.au  
C:\>slmgr -ato
```

**Note:** While we are currently under the 25 client limit you will receive the a message stating the return count from the Key Management Service is insufficient. Once we are over this threshold you will receive confirmation that Windows Vista has been activated. You will also receive an error in the system tray stating activation failed. This will also dissapear once we have reached 25 clients.

## Post Installation

For all of these configuration changes, you need to be logged in as the local administrator on the machine.

### **Apply Service Packs (SP's) and Hot Fixes (Essential)**

Connect to Windows Update (<http://www.windowsupdate.com>) and apply all appropriate Hot Fixes and Service Packs.

### **Configure Windows Server Update Services (WSUS) (Essential)**

Navigate to the following URL which will provide installation procedures for WSUS  
<http://www.unisa.edu.au/ists/devolvedITsupport/TechnicalResources/WSUS/>

**Note:** We suggest creating a GPO that sets the WSUS parameters and adding the machine to that OU

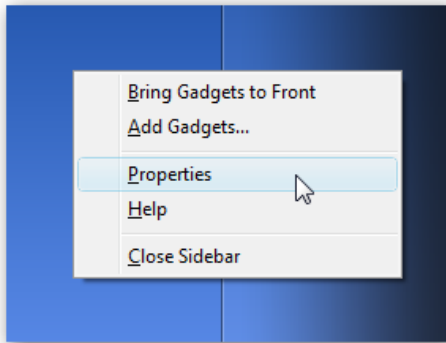
## Optional Customisations

### Windows Vista Sidebar

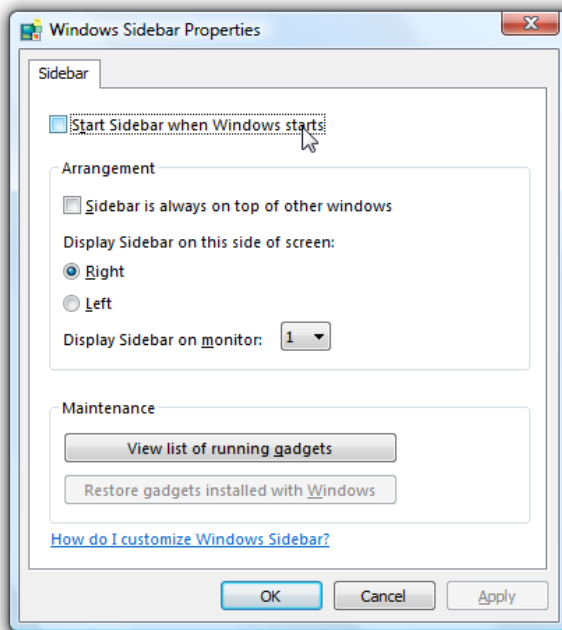
Windows Vista Sidebar is normally off by default. If it is on and you wish to turn it off use the following instructions. Turning off the sidebar will increase startup speed considerably.

To turn off:

Right click the side bar and press **Properties**.



Uncheck the Start Sidebar when Windows starts checkbox.



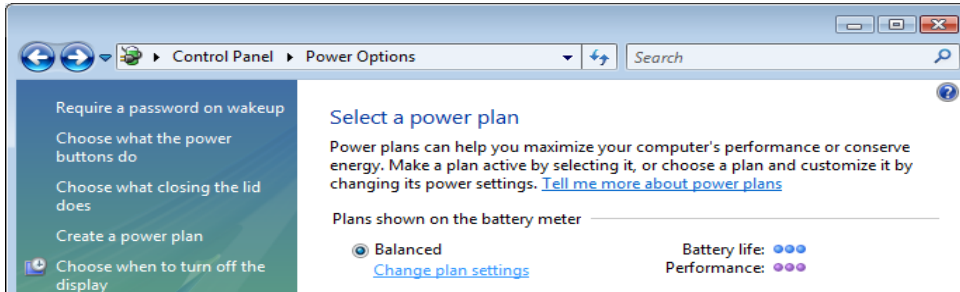
To access the sidebar properties once it's turned off:

Go to control panel and click on **Windows Sidebar Properties**

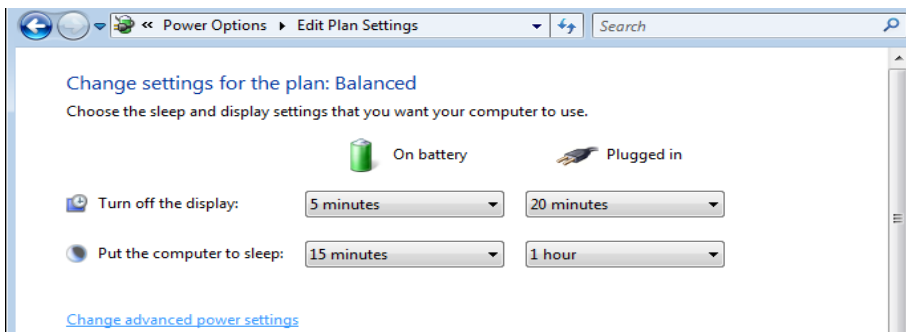
## Start Menu Power Button Power Configuration (for notebooks only)

By default, the start menu power button which in previous versions of Windows has been set to shut down, is set to sleep. If you wish to change this setting, follow the steps listed.

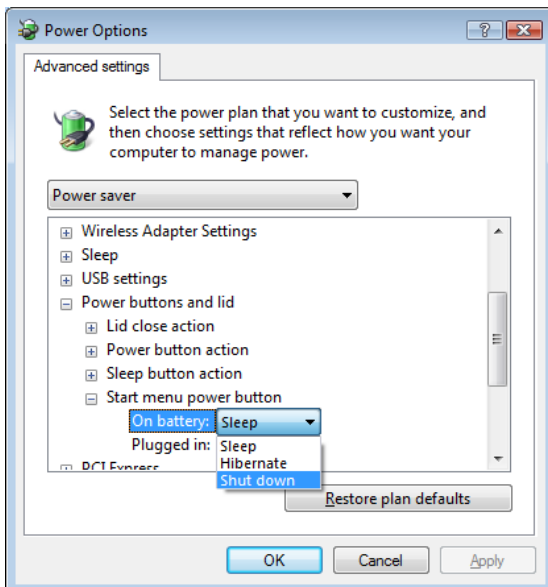
Open **Control Panel** then **Power Options**.



Under the selected power plan, press **Change plan settings**.



Press **Change advanced power settings**.



**Expand** Power buttons and lid **Expand** Start menu power button.

**Change** On battery to Shut down and Plugged in: to Shut down.

## School and Unit Codes

Org2	Org Unit 2 Full Name	Org2 Short Name
ABT	David Unaipon College of Indigenous Education and Research	David Unaipon College
ACI	School of International Studies	Sch International Studies
AME	School of Advanced Manufacturing and Mechanical Engineering	Sch Adv Manf & Mech Eng
ARC	Louis Laybourne-Smith School of Architecture and Design	L L Sch Architecture & Design
ART	South Australian School of Art	S A School of Art
AWH	Centre for Regional Engagement (Campus Administration)	Regional Engagement Admin
BUO	Business and Enterprise Divisional Office	Bus & Enterprise Div Office
CAL	CELUSA	CELUSA
CAT	Catering Contractor	Catering Contractor
CHA	Chancellery	Chancellery
CIS	School of Computer and Information Science	Sch Computer & info Science
CLN	Cleaning Contractor	Cleaning Contractor
CMR	School of Commerce	Commerce
COA	Corporate Financial Reporting1	Corporate Financial Reporting1
COB	Corporate Financial Reporting2	Corporate Financial Reporting2
COC	PVC/VC Authorisations	PVC/VC Authorisations
COD	Uni wide	Uni wide
COM	School of Communication	Sch Communication
EAO	Education Arts and Social Sciences Divisional Office	Ed Arts & Soc Sc Div Office
EDS	School of Education	Sch Education
EIE	School of Electrical and Information Engineering	Sch Elec & Inf Eng
FIN	Finance	Finance
FLC	Flexible Learning Centre	Flexible Learning Centre
FMU	Facilities Management Unit	Facilities Management Unit
FND	Foundation	Foundation
GEN	General Teaching Facilities	General Teaching Facilities
GSB	The International Graduate School Of Business	Grad Sch of Bus
HLS	School of Health Sciences	Sch Health Sciences
HRI	Hawke Research Institute	Hawke Research Institute
HRM	Human Resources	Human Resources
HSO	Health Sciences Divisional Office	Health Sciences Div Office

<b>IEO</b>	Information Technology Engineering and the Environment Divisional Office	Inf Tech Eng & Env Div Office
<b>INO</b>	UniSA International	UniSA International
<b>IST</b>	Institute for Sustainable Systems and Technologies	Inst Sustain Systems & Tech
<b>ITR</b>	Institute For Telecommunications Research	Inst for Telecommunication Res
<b>ITU</b>	Information Strategy and Technology Services	Info Strategy & Techn Svces
<b>IWR</b>	Ian Wark Research Institute	Ian Wark Research Institute
<b>LAW</b>	School of Law	School of Law
<b>LEA</b>	Leased to external body	Leased to external body
<b>LBY</b>	Library	Library
<b>MAT</b>	School of Mathematics and Statistics	Sch Maths & Stats
<b>MDU</b>	Marketing and Development Unit	Marketing and Development Unit
<b>MGN</b>	School of Management	Management
<b>MKT</b>	School of Marketing	Sch Marketing
<b>NBE</b>	School of Natural and Built Environments	Sch Natural & Built Env
<b>NON</b>	Non useable space	Non useable space
<b>NRC</b>	School of Nursing and Midwifery	Sch Nursing & Midwifery
<b>ORC</b>	Research and Innovation Services	Research Services
<b>PAR</b>	Planning and Assurance Services	Planning & Assurance
<b>PET</b>	CRC-Australian Petroleum	CRC-Australian Petroleum
<b>PMB</b>	School of Pharmacy and Medical Sciences	Pharm & Med Sciences
<b>PSE</b>	Permanent Staff - non established	Permanent Staff - non estab
<b>PSY</b>	School of Psychology	Sch Psychology
<b>REC</b>	Central Student Records	Central Student Records
<b>RGY</b>	Student and Academic Services	Student & Academic Services
<b>SAC</b>	Spencer Gulf Rural Health School	Spencer Gulf Rural Health Sch
<b>SAS</b>	CRC-Satellite Systems	CRC-Satellite Systems
<b>SAT</b>	Satac View Users	Satac View Users
<b>SBT</b>	SAIBT	SAIBT
<b>SIP</b>	CRC-Sensor Signal and Information Processing	CRC-Sensor Sig & Info Proc
<b>STA</b>	USA Student Association	USA Student Association
<b>SWP</b>	School of Social Work and Social Policy	Sch Social Wk and Social Pol
<b>TBS</b>	ITEK Pty Ltd	ITEK Pty Ltd
<b>WHY</b>	Centre for Regional Engagement	Regional Engagement

<b>WQT</b>	CRC-Water Quality and Treatment	CRC-Water Quality & Treatment
<b>XAU</b>	Adelaide University Staff	Adelaide University Staff
<b>XFU</b>	Flinders University Staff	Flinders University Staff
<b>XIT</b>	Australian Irrigation Technology Centre Staff	Aust. Irrig. Tech. Centre Staff
<b>XMC</b>	Maritime College Staff	Maritime College Staff
<b>XNO</b>	External Nonpaying Customers	External Nonpaying Customers
<b>XPY</b>	External Paying Customers	External Paying Customers
<b>XTA</b>	Tafe Staff	Tafe Staff