![MicroSale - Simple, Complete Point of Sale System]

POS Hardening for PCI Compliancy

All of the Instructions below need to be followed on all registers at each location to provide the customer with the most secure environment for the POS.

AntiVirus:

1. Install and update **Avast** Free Antivirus, **Microsoft Security Essentials**, or the **AV** software of your choosing.

   Set AV to auto-scan once a week. Sunday 4 am. Also set Av to keep logs for 180 (limited disk space) days instead of 30. Confirm AV is set to update virus definitions automatically.

2. Install and update **MalwareBytes**. MalwareBypes can be file transferred or downloaded directly from MalwareBytes website. http://www.malwarebytes.org/mwb-download/

Windows Programs/Services:

1. Click Start→ Control Panel→ **Add/Remove Programs**
   a. Select **UltraVNC** and Uninstall if it is installed

2. Right Click on My Computer and select **Manage**. Go to Services and find "**Telnet**". Right Click on Telnet and go to **Properties**. Change Startup Type from "Automatic" to "**Disabled**". Select the "**Stop**" button to stop the service. Apply settings and exit.

3. In "Computer Management" go to "**Event Viewer**"
   a. Right Click on "application" and select **Properties**. Change maximum log size to **50 mb or closest 64k increment**. Select radio dial "**Overwrite events as needed**".
   b. Right Click on "security" and select **Properties**. Change maximum log size to **50 mb or closest 64k increment**. Select radio dial "**Overwrite events older than___**", and enter **90** in the "number of days" field.

4. Make sure Windows is set to download and Install updates daily at 3:00 AM.

Windows User Acct:

1. Click Start→Run→ type control **userpasswords2** and click "**OK**"

2. Click on the **Advanced Tab**→ followed by the "Users" folder→ Select **User "xxxxxxx"** (POS User Account) –See Figure 1

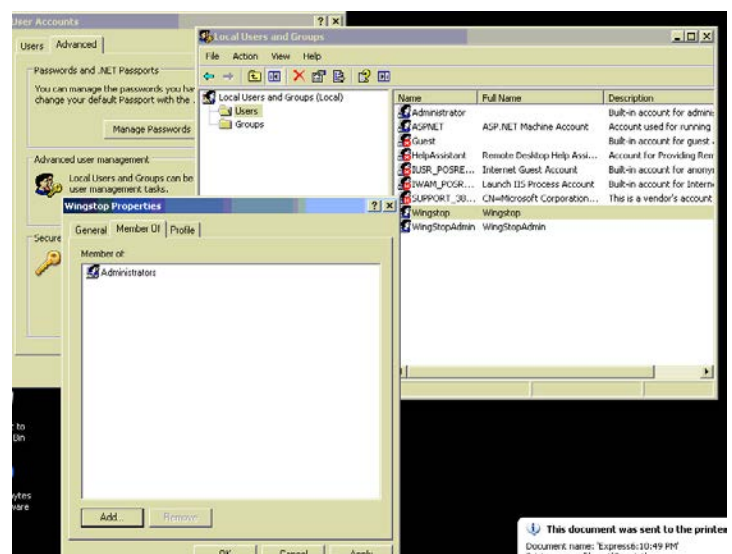3. Click on the **Member Of** tab and remove "Administrators" and add "**Power Users**"
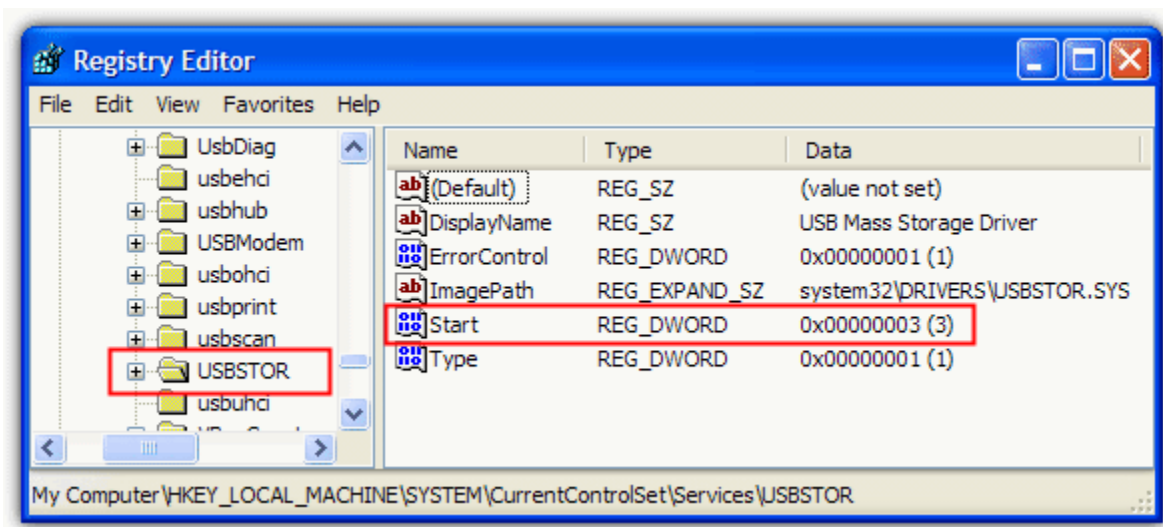
Disable Internet Explorer:

Figure 1

1. Click Start →Control Panel→Programs→Turn **Windows Features On or Off**
2. Clear the check box for Internet Explorer to turn it off, and then select **Yes**
3. Click **OK**. When prompted, **restart** your PC.

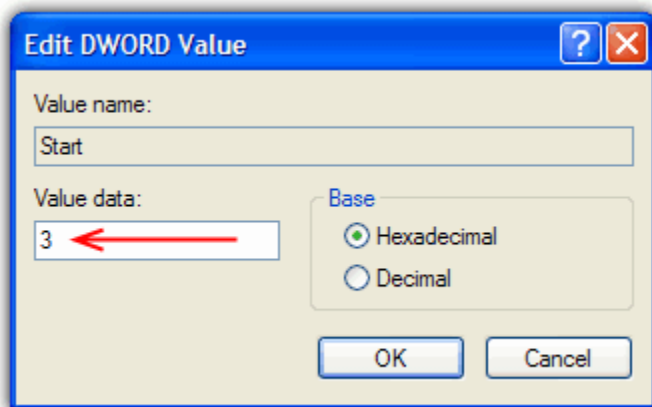## Manually Editing The Registry To Disable USB Storage Devices:

IMPORTANT BACK UP YOUR REGISTRY BEFORE MAKING ANY CHANGES

1. Click Start→ Run→ Type **regedit** and select Enter or click on the **OK** button. For Vista and 7 go to Start→type **regedit** into the search box, select **Enter**.

2. Browse to: **HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\UsbStor**

Look for the value "**Start**" in the right pane

3. Double click the "**Start**" value in regedit and the default value data should be **3**.

Switch this value data to **4**, and USB storage devices are disabled.
Switch this value data back to **3**, and USB storage devices are enabled again

SSL and TSL for Secure Internet Protocols:

You should ensure that SSL (all versions) and TLS 1.0 have been disabled and TLS 1.1 and TLS 1.2 have been enabled (see screenshot). The former protocols are no longer secure or compliant. You may need to upgrade Internet Explorer to version 9 or higher in order to configure these settings.