# Vista SP1 Automation lab machine setup:

Using the Install CD:

When booting from a SafeOS install CD labeled “SCSE Automation ASI/WTT” they will without any further prompting automatically configure the machines with 3 primary partitions,

0x1 C: 80 GB for the Test OS (Should be 60)

0x2 D: 20 GB for the Safe OS (Should be 30)

0x3 E: remaining space for extra data

Next revision:

0x1 C: 60 GB for the Test OS

0x2 D: 30 GB for the Safe OS

0x3 E: remaining space for extra data

This will erase all existing data, however there is a small ‘press any key’ opportunity given where other options, such as recovery of the Safe OS, can be chosen. You may notice that “Will wipe all drives” is emblazoned in red on the CD, hopefully this is sufficient warning to prevent mishaps.

If the machine was not previously registered with the ASI servers, it will prompt for a username and password to register with, as well as for the machine name. It then installs and configures the Safe OS.

Safe OS:

The Safe OS is x64 Vista RTM, Enterprise\_VL, primarily because of the availability of KMS servers on Corpnet which allow the machines to share one Product Key. Other benefits include in-box driver support for the newer hardware, support for Bitlocker partitions, and being able to deploy both x86 and x64 Test Oss.

I hardcoded the common VL key from <http://mspkd>, as it is good for unlimited installs and activations only on Corpnet connected machines.

The CD will install the most recent RTM’d version, so at the moment it is build 6000, when SP1 is RTM’d it should install 6001 directly, and automatic updates should upgrade the existing installs over time.

Next Revision:

I have been migrating the machines to Server 2003, due to problems using Vista as the safe OS, with unknown causes; I suspect ASI 3.0 will work better with a Vista safe OS, so at that time Enterprise\_VL may become usable again; Server 2003 also lacks Inbox drivers for Dell 745 network adapters, but they are on the CDs

The safe OS is also:

Joined to the Redmond domain.

The default administrator password is set to “Admin#1”.

Redmond\Igloolab is added to the administrators group.

Remote Desktop is enabled.

Installs WTT from [\\TKBGITWTTCT61](file:///\\TKBGITWTTCT61)

ASI bits are automatically installed.

For remote desktop, it’s important to note that the machine name for the Safe OS is the ordinary name with “\_S” appended, for example “B96BTM-01\_S”. This was recommended by ASI, and different from our Total Control setups which appended “\_SAFE”

I would also add the command to disable Hibernation; however Hibernation might be allowed if the machines can be set to ‘wake on lan’, which should be done anyway, in case the Test OS falls asleep. a generic call to a command script, located on a reliable server (ShellTest or WEXFS, or perhaps both, with a fail-over mechanism) to perform any additional tasks, such as copying common tools/files to the E:/Data drive.

Deploying a Test OS:

If ASI.exe is called with the “–register” parameter, it saves the given parameters as defaults for future installs on the machine, without changing previous defaults that were not specified.

I used this mechanism to configure each of the 24 test machines with a different default combination of SKU, Language, and Processor.

Within WTT I First selected the machines out of the pool that were to be x86, and used an arbitrary command prompt job (many exist already in the data store) to send them the command“asi.exe –register –processor x86”, then I selected the machines that were to be x64 and sent them “asi.exe –register processor amd64”.

I repeated that process for language and SKU, issuing a total of 12 jobs to varying sets of machines, giving a combination exactly matching the weekly test run matrix.

Currently, I’m using an ‘indivualization’ command script, which sets the defaults based on the machine name, it has 24 if statements, so it will not work on other machines; however, it is stored on the network, not burned to the CD, so adding or changing it should be fairly easy.

Before starting the install, I also set “asi.exe –register –display 1024 768 32 60” to all of them, then finally I ran Job #1, ‘Deploy OS’ which sends the command to install the ‘default’ (which is now customized per machine) to each machine.

I created a job (#456590) which calls another job (#478124) to setup most of these selections, calls Deploy OS (#1), then when finished calls the machine prep job (#478124) again.

A while later, all 24 machines were ready; being deployed by WTT using ASI, then automatically installing the WTT client on the test OS’s, then returning to the ‘Ready’ state in the pool when done.

I was able to set the LLU\_Default user, needed by our tests, as well as the TestBinRoot override by sending commands from WTT to the whole pool at once.

Later, I found that I need to set separate TestBinRoots for x86 and x64; but that is easily done by sending the command to set the x64 root to the pool with a constraint on Processor equaling x64; and x86 with the constraint of x86. This will not be an issue in a ‘real’ build, since the OSBinRoot and TestBinRoot will already match.

Jobs can then be run normally from WTT.

# SKU Automation machine setup tips:

## How to keep machines from Hibernating

You can disable power saving mode on a Vista PC with this command

**powercfg -s SCHEME\_MIN**