



# GENERATING UNIQUE SYSTEM IDS (SIDS) AFTER DISK DUPLICATION USING ALTIRIS DEPLOYMENT SOLUTION

HP thin clients running Microsoft®  
Windows Embedded Standard 2009  
(WES) and  
Windows® XP Embedded (XPe)

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## Introduction

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### Note

Although the Altiris Client agent is preinstalled, a free license will no longer be included on the t574x and all new platforms going forward. To purchase a license, contact Altiris at <http://www.altiris.com>.

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Altiris Deployment Solution uses a program called Altiris Rapideploy for image deployment. Upon image deployment, you must create a unique System ID (SID) for each WES- and XPe-based thin client to prevent security vulnerabilities. To accomplish this, a utility called SIDGen is provided with Deployment Solution that you can install on the thin client with the Aclient Deployment Solution agent.

This document outlines the steps to install SIDGen on a WES- or XPe-based thin client and handle the Microsoft Enhanced Write Filter (EWF) or File Based Write filter (FBWF) correctly. Current WES and XPe images for thin clients preinstall the SIDGen utility.

## Installing SIDGen on a WES- or XPe-based HP thin client

The following steps show the correct procedure for installing Altiris SIDGen on a WES- or XPe-based thin client. Upon completing these steps, any Deployment Solution Capture or Deploy image job will automatically create a unique SID on the target unit.

1. Install Altiris Deployment Solutions 6.9 Service Pack 2.  
Older versions of Altiris such as Deployment Solutions 6.1 SP1 Hotfix C, 6.5 or 6.8 have a SIDGen that works with XPe Service Pack 2 (SP2) and prior versions of XPe; however the SIDGen from 6.9 SP2 is required for XPe SP3 and WES. The SIDGen file from a Deployment Solutions 6.9 SP2 or later installation can be copied to and replace the existing SIDGen on a prior version of Deployment Solutions, if you wish to use a version of Deployment Solutions older than SP2 to manage the XPe Sp3- or WES-based thin clients. The current Deployment Solution product is available at the following Web site:  
<http://www.altiris.com/hptc>.
2. On a thin client with the Altiris agent installed, log on as an administrator.
3. From the run line, type `regedit` and press **Enter**.
4. Click **HKEY\_Local\_Machine**.
5. Click **Software**.
6. Click **Altiris**.
7. Right-click **Client Service** and choose **Export**.
8. Name the file `sidgen` and save it. Accept the default file extension, `.reg`.
9. Close `regedit`.
10. Use Notepad to open `sidgen.reg` created in step 8.

11. Delete everything in the file **except** the following lines:  

```
Windows Registry Editor Version 5.00
[HKEY_LOCAL_MACHINE\SOFTWARE\Altiris\Client Service]
"UpdateFileSystemSids"=dword:00000001
```
12. Add the following line immediately below the last line:  

```
"ProcessFileSystem"=dword:00000001
```
13. Save sidgen.reg. Do not change the file name.
14. Copy sidgen.reg to the following directory on the Deployment Server:  
c:\Program Files\Altiris\express\Deployment Server.
15. Right-click in the **Job** window of the Deployment Server console and select **New Job**.
16. Type a name for the job, such as Deploy SIDGen.
17. In the upper right corner of the **Job** window, select **Add > Run Script**.
18. If the thin client is using the
  - **EFWF write filter**, type `ewfmgr c: -disable` in the script window, and then select the option that the script must run in Windows.
  - **FBWF write filter**, type `fbwfmgr /disable` in the script window, and then select the option that the script must run in Windows.
19. Click **Next**, then **Next**, and then **Finish**.
20. Select **Add > Power Control** in the upper right corner of the **Job** window.
21. Select the options for **Restart** and **Force Applications** closed.
22. Click **Next**, and then **Finish**.
23. Select **Add > Copy File To** in the upper right corner of the **Job** window.
24. Enter the source and destination of SIDGen.exe, and then click **OK**.

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#### Note

The default source path is c:\Program Files\Altiris\express\Deployment Server\SIDGen.exe and the default destination path on the thin client is c:\Program Files\Altiris\Aclient\SIDGen.exe.

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25. Select **Add > Copy File To** in the upper right corner of the **Job** window.
26. Click **Next**, and then **Finish**.

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#### Note

The default source path is c:\Program Files\Altiris\express\Deployment Server\SIDGen.exe and the default destination path on the thin client is c:\Program Files\Altiris\Aclient\SIDGen.reg.

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27. Select **Add > Run Script** in the upper right corner of the **Job** window.

28. Type `regedit /s "c:\program files\altiris\aclient\sidgen.reg"` in the script window, and then select the option that the script must run in Windows.
29. Click **Next**, then **Next**, and then **Finish**.
30. Select **Add > Run Script** in the upper right corner of the **Job** window.
31. If the thin client is using the
  - **EFW write filter**, type `ewfmgr c: -enable` in the script window, and then select the option that the script must run in Windows.
  - **FBWF write filter**, type `fbwfmgr /enable` in the script window, and then select the option that the script must run in Windows.
32. Click **Next**, then **Next**, and then **Finish**.
33. Select **Add > Power Control** in the upper right corner of the **Job** window.
34. Check the option buttons for **Restart** and **Force Applications** closed.
35. Click **Next**, and then **Finish**.
36. Drag-and-drop this newly created backup job to the selected machine. A **Schedule Computer Job** window is displayed with the following three options:
  - **Do Not Schedule**
  - **Run this Job Immediately**
  - **Schedule this job**
37. Select an option, and then click **OK**.

Upon completing these steps, SIDGen will automatically execute after any future Rapideploy Imaging Job. The program will execute after the Post Configuration Task and will add an extra reboot to the imaging process.

## Executing Altiris SIDGen Utility

You can execute the Altiris SIDGen utility in several different ways. The most common execution allows the utility to run silently within a Deployment Solution imaging job. If the SIDGen utility is present in the same folder as the Aclient on the client, the utility automatically executes during the Post Configuration Task without user interaction or knowledge. Use this method with Deployment Solution 6.1 SP1 Hotfix C or later versions, which resolve cleanup failures. Insure that post configuration runs, either by itself or in combination with an image capture/deploy job, only when the FBWF writer filter is not in use (because either no writer filter is in use or the EWF is in use). The sample jobs section of the Altiris console can be used to send out a disable FBWF job before running the image capture/deploy job or running a post configuration job by itself. Be sure to re-enable the FBWF by using the sample jobs or other means afterwards, if desired.

You can also execute SIDGen through a command line or by double-clicking the icon anytime the user wishes to generate a unique SID.



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382042-006, October 2010