

## Top Seven Tips and Tricks for Group Policy in Windows 7

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WHITE PAPER

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### Introduction

Windows 7 comes with a host of new features. In corporate environments, the last thing IT departments want is for users to have free rein over these new features once Windows 7 is deployed to their desktops.

Group Policy is the de facto way to deploy security settings and desktop settings and ensure a complete lockdown. IT support and IT managers can utilize the Group Policy infrastructure they already have to ensure compliance with corporate standards and company settings.

In this document, we'll examine the top seven Group Policy tips and tricks for Windows 7. You'll learn about the new features, what works, what doesn't, and how to make the most of your Windows 7 investment.

## Tip #1: Use a Windows 7 Management Machine.

This tip is the foundation for all the other tips in this document. In order to make the most of the new Group Policy functionality in Windows 7, you'll need to commit to having one "management machine" running Windows 7. Alternatively, you could use a Windows Server 2008/R2 machine as your management machine, but for practical purposes, most administrators will likely use Windows 7.

Once you've chosen your Windows 7 management machine, you'll need to install the Group Policy Management Console (GPMC) to have access to all the new features. However, the GPMC is not "in the box"; it's available only as part of a downloadable package called Remote Server Administration Toolkit (RSAT). Therefore, the first step in creating a Windows 7 management machine is to download RSAT and install the GPMC component.

Trying to find the RSAT for Windows 7 can be a bit of a challenge, so here's a URL you can use to download it: <u>http://tinyurl.com/klycep</u>. If that link changes, search for the phrase "Remote Server Administration Tools for Windows 7."

Note that there are both 32-bit and 64-bit versions, so be sure to install the correct one for your architecture. Also, beware of downloading older "RC" (Release Candidate) and beta versions of RSAT.

Once RSAT is installed, you can select **Remote Server Administration Tools** inside **Control Panel | Programs | Turn Windows Features on or off**, as shown below:



Figure 1. Installing RSAT adds the latest GPMC to Windows 7

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Figure 1 shows how to select "Group Policy Management Tools" to install the GPMC and "Active Directory Administrative Center" to add Active Directory Users and Computers and other Active Directory–related tools.

Once installed, the GPMC is available by running GPMC.MSC from the command prompt, or locating it from the Start Menu.

Some items will have special Windows 7–only areas. For example, you may discover that items that worked fine in Windows Vista now have some extra control, such as the wireless policy highlighted in Figure 2.



Figure 2. The updated RSAT with the GPMC on Windows 7 provides more Windows 7 controls.

Now that your Windows 7 management machine is up and running, you'll be able to deploy the 3000-plus Group Policy and Group Policy Preferences settings to your client machines to give them the appropriate user experience.

### Tip #2: Manage Windows 7's Power Using Policy Settings and Controls for "Power Plan" Preferences

To lower your operational costs, use Group Policy to deliver settings that decrease the "power footprint" of your desktops and laptops. The smaller your power footprint is, the more money you will save—day after day, and year after year.

Power-related policy settings can be found at **Computer Configuration | Policies | Administrative Templates | System | Power Management**, as shown in Figure 3. Note that these policy settings are available only for computers, not users.

File Action View Help			
⇔ ⇒   2 🗊   🗟 🗊   🤻			
Computer Configuration     Policies			
Software Settings Turn Off the Display (Plugged In)	Setting	State	Comment
Windows Settings     Generative Templates: Policy d     Edit <u>policy setting</u>	E Specify the Display Dim Brightness (Plugged In)	Not configured	No
Deruiterenter	E Specify the Display Dim Brightness (On Battery)	Not configured	No
Network     At least Windows Vista	Reduce Display Brightness (On Battery)	Not configured	No
a System	Turn On Desktop Background Slideshow (Plugged In)	Not configured	No
Credentials Delegation E Specifies the period of inactivity	E Turn On Desktop Background Slideshow (On Battery)	Not configured	No
Device Installation Device Redirection	ay, III Turn Off Adaptive Display Timeout (Plugged In)	Not configured	No
Disk NV Cache	E Turn Off the Display (Plugged In)	Enabled	No
Disk Quotas indicating how much idle time	📰 Turn Off the Display (On Battery)	Not configured	No
Distributed COM should elapse before Windows turn off the display.	ns 💽 Turn Off the Display (Plugged In)		- • •
Enhanced Storage Access Hyou disable this policy or do not	I Turn Off the Display (Plugged In)		
Filesystem Folder Redirection		Previous Setting	Next Setting
Group Policy change this setting.	Not Configured Comment:		
Internet Communication M	Enabled		
Kerberos			+
Cocale Services	Supported on: At least Windows V	/icta	
Cogon			-
Performance Control Panel			
Power Management	Options: H	elp:	
Button Settings	Turn Off the Display (seconds):	pecifies the period of inactivit	y before Windows turns off the
Notification Settings	500 ×	lisplay.	
Sleep Settings	Jee w	you enable this policy, you n	nust provide a value, in seconds,
Recovery	ir tu	ndicating how much idle time urns off the display.	should elapse before Windows
Extended Standard		you disable this policy or do	not configure it users can see and

Figure 3. Use Group Policy Power Management settings to configure power-related policies for computers.

Also available are Group Policy Preferences settings for both users and computers. You can find those in **Computer Configuration | Preferences | Control Panel Settings | Power Options** and **User Configuration | Preferences | Control Panel Settings | Power Options**, as seen in Figure 4.



Figure 4. Group Policy Preferences for Windows 7 Power Plans are on both the computer and user sides.

The Group Policy Preferences for Power Plan settings (Figure 5) offer even more settings than the policy settings shown in Figure 3.

💐 Power Options
New Power Plan (Windows Vista and later) Properties
Advanced settings Common
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.
Ac <u>tion:</u> Update
Balanced 🔹
Set as the active power plan
PCI Express
Processor power management
Minimum processor state
On battery (%): 5
Maximum processor state
⊞ Battery
<u>R</u> estore plan defaults
OK Cancel Apply Help

Figure 5. Use Group Policy Preferences' Power Settings to set even more power-specific savings.

However, remember that the nature of Group Policy preferences is different than Group Policy's policy settings: preferences can be undone by users at any time, while policy is enforced by the system and cannot be bypassed by regular users.

Also note that the Preferences item is named "Power Plan (Windows Vista and later)," which implies that configurations should be embraced by both Windows 7 and Windows Vista machines. As of now (Winter 2009/2010), that is not true; an upcoming Windows Vista update is in progress to address this issue. As soon as the update is released, there will be an announcement in the "Tip of the Week" newsletter at GPanswers.com.

By instituting power management settings using Group Policy and/or Group Policy Preferences, you'll immediately be able to recoup some of your Windows 7 deployment costs.

### Tip #3: Lock Out Unwanted Hardware Using Group Policy

One of the key security concerns for administrators should be preventing corporate data from "walking away" from the network. For this reason, you may want to prevent items like USB flash drives, cameras and phones using flash media, or other kinds of hardware devices from being used on your network.

You can use Group Policy to:

- **Blacklist a specific device.** This ensures that specific hardware, such as a USB flash drive, cannot be used.
- Whitelist specific devices. Unless the device type is on the list, it is not permitted.

The policy settings that enable you to perform hardware lockout are located at **Computer Configuration** | **Policies** | **Administrative Templates** | **System** | **Device Installation** | **Device Installation Restrictions**. These hardware lockout policy settings are valid for Windows Vista and onward, including Windows 7.

You can see a live demonstration of how to perform device blacklisting by visiting to <u>http://tinyurl.com/ycrg46a</u> and watching a snip from the GPanswers.com "Group Policy University" training.

### Tip #4: Note that the "Immediate Task" Function for Windows 7 Machines Doesn't Work Yet

People often ask me if there's a way to use Group Policy to reach out and touch all of their machines at once. You might want to do this, for example, to perform the same command on all machines at the same time or to set up a future event.

However, it is important to remember that the Group Policy engine itself is not "immediate." The GPO on the domain controllers contains the "payload" of directions. Group Policy settings are pulled from that GPO every 90 minutes or so by the client.

One of those payloads can be a new instruction for Windows 7 and Windows Server 2008/R2 called an "Immediate Task", as seen in Figure 6 with the payload seen in Figure 7.



Figure 6. New Immediate Task type

New Task (Windows Vista and later) Properties			
General Actions	Conditions Se	ttings Common	
	Action:	Create	
Name:	Kick Off Virus	Scanner NOW	
Author:	FABRIKAM\Ad	ministrator	
Description:			
Security options	9		
When running t	he task, use the	following user account:	
%LogonDoma	%LogonDomain%\%LogonUser% Change User or Group		
Run only where the second s	ien user is logge	d on	
Run whether	Run whether user is logged on or not		
Do not s	tore password. 1	The task will only have access to local resources.	
🔲 Run with hig	ghest privileges		
Hidden	Configure	for: Windows 7 Windows 7 Windows Vista™ or Windows Server™ 2008 Windows Server™ 2003, Windows® XP, or Windows® 2000 Windows Rever™ 2003, Windows® XP, or Windows® 2000 Windows Rever™ 2003, Windows® XP, or Windows® 2000	

Figure 7. Immediate Task can be configured for Windows 7 (and Windows Server 2008/R2)

However, the bad news is that this "Immediate Tasks" function doesn't seem to be working in Windows 7 or Windows Server 2008/R2. For this reason, GPOs with the Immediate Tasks item type (for Vista and later) are ignored by the target machine.

Also, it appears that this item type is valid for Windows Vista. However, that is also not true—at least not yet. Similar to the Power Management features described earlier, the Immediate Task type *appears* to be valid for Windows Vista, but as of now (Winter 2009/2010), Windows Vista does not yet have the update ready to process this type of policy setting, as well as the Scheduled Task setting (Windows Vista and later).

However, Windows 7 and Windows Server 2008/R2, do appear to process Scheduled Task (Windows Vista and later) items correctly; again, it's only the Immediate Task (Windows Vista and later) that is currently inoperative.

The good news is that there's now a uniform way to assign tasks to all of your machines. Instead of running around from machine to machine, use the power of Group Policy to ensure that consistent, controlled actions are taken based on a central policy.

### Tip #5: Use PowerShell to Deploy Scripts

Administrators everywhere are catching PowerShell fever. And for good reason: there are lots of things you might want to do in PowerShell during computer start up or shut down, or at user log on or log off.

Until recently there was no great in-the-box way to deliver PowerShell scripts to target machines. However, Windows 7 and Windows Server 2008/R2 machines can accept PowerShell scripts via Group Policy.

Figure 8 shows the properties of the Logon Properties dialog box found at User Configuration | Policies | Windows Settings | Scripts (Logon/Logoff). Similar settings for the Computer are found in Computer Configuration | Policies | Windows Settings | Scripts (Startup/Shutdown).

Logon Properties		? 💌
Scripts PowerShell Scripts		
Windows Pow Tasks Test	erShell Logon Scripts for Win7	/ R2 Scheduled
Name	Parameters	Up
myscript.ps1		Down
		Add Edit Remove
For this GPO, run scripts in	the following order:	
Not configured	▼	
PowerShell scripts re 2008 R2	quire at least Windows 7 or W	indows Server
	511	ow files
	OK Cancel	Apply

Figure 8. Using Group Policy to deploy PowerShell scripts to Windows 7 clients

However, the pitfall is that anything you do with PowerShell cmdlets exists only as long as the script runs. Therefore, you may get unexpected results. You might think you've mapped a drive letter, only to find that in the outside world, it's not available to users.

You might want to use PowerShell scripts as a handy way of copying files from the client to the server, rounding up events in the event log and centrally managing them, or for a variety of other reasons. Just remember to output your results to a static location, and don't keep anything important inside the PowerShell bubble.

### Tip #6: Use PowerShell for Scripting Group Policy Operations

PowerShell can also be used to script Group Policy operations that are normally only available within the GPMC. For instance, you might want to:

- Create a new GPO
- Restore the settings from an existing GPO
- Link that newly created GPO to an OU

With the new PowerShell support built into Windows 7, you're almost there. To get started on your Windows 7 management machine, start a new PowerShell session. Then type import-module grouppolicy. You can optionally tack on -verbose to show the cmdlets that the Group Policy PowerShell module can perform. The result is shown in Figure 9:

Administrator: C:\Windows\system32\cmd.exe - powershell	×
PS C:\temp> import-module grouppolicy -verbose VERBOSE: Importing cmdlet 'Backup-GPO'. VERBOSE: Importing cmdlet 'Copy-GPO'. VERBOSE: Importing cmdlet 'Get-GPO'. VERBOSE: Importing cmdlet 'Get-GPOReport'. VERBOSE: Importing cmdlet 'Get-GPPrefRegistryValue'. VERBOSE: Importing cmdlet 'Get-GPRegistryValue'. VERBOSE: Importing cmdlet 'New-GPLink'. VERBOSE: Importing cmdlet 'New-GPLink'. VERBOSE: Importing cmdlet 'Remove-GPLink'. VERBOSE: Importing cmdlet 'Remove-GPLink'. VERBOSE: Importing cmdlet 'Remove-GPLink'. VERBOSE: Importing cmdlet 'Remove-GPRegistryValue'. VERBOSE: Importing cmdlet 'Remove-GPRegistryValue'. VERBOSE: Importing cmdlet 'Remove-GPRegistryValue'. VERBOSE: Importing cmdlet 'Set-GPInheritance'. VERBOSE: Importing cmdlet 'Set-GPInheritance'. VER	* III
	Ŧ

Figure 9. Importing the Group Policy PowerShell cmdlets

Using the PowerShell console makes it easy to create a GPO from scratch. Just use the New-GPO command, as shown below:

```
PS C:\temp> New-GPO -name "A GPO from PowerShell"

DisplayName : A GPO from PowerShell

DomainName : fabrikam.com

Owner : FABRIKAM\Domain Admins

Id : 4391ff66-197d-4bbe-b83e-4b536a09b543

GpoStatus : AllSettingsEnabled

Description :

CreationTime : 11/17/2009 8:21:33 PM

ModificationTime : 11/17/2009 8:21:33 PM

UserVersion : AD Version: 0, SysVol Version: 0

ComputerVersion : AD Version: 0, SysVol Version: 0

WmiFilter :

PS C:\temp> _
```

Figure 10. Creating a new GPO using PowerShell

Following are some creative things you might want to try when you have a minute.

• To list all the names of the GPOs and when they were created:

Get-GPO -all | Select DisplayName, CreationTime

• To dump a settings report for every GPO in the domain into separate files:

```
Get-GPO -all | Foreach {
    $report="F:\GPReports\{0}.htm" -f
    $_.displayName.Replace(" ","")
    Get-GPOReport $_.DisplayName -ReportType HTML -Path $report
    }
```

To back up all GPOs:

backup-gpo -All -path \\server\share\gpobackup -comment "Weekly Backup"

By using PowerShell to script your Group Policy operations, you can ensure that repetitive tasks there are done correctly every time, without manual labor. But remember that these cmdlets are only available when you're using Windows 7 or Windows Server 2008/R2 as your management machine.

# Tip #7: Get Application-level Control Using AppLocker

In tip #3, we restricted undesirable hardware. In this final tip, we'll restrict undesirable software. The Windows default is to allow users to run any application—even single EXE files—without question. But what if that EXE contains something dangerous? Or what if it is an old version of an in-house application that needs to be upgraded?

With Microsoft's AppLocker, you can get close to a world where only the applications you want to run are indeed running.

#### AppLocker can be found in the Group Policy editor at **Computer Configuration | Policies | Windows** Settings | Security Settings | Application Control Policies | AppLocker.

Microsoft's AppLocker is an evolutionary step from its previous restricting software, Windows XP's Software Restriction Policies. AppLocker raises the bar in several ways.

For instance, you can dictate which software will and will not run via "Publisher rule." Creating the rule is easy: the administrator simply browses to any file by a particular manufacturer (Publisher), and then (provided the file is digitally signed) chooses whether to allow or disallow software based on various criteria.

Create Executable Rules	
Publisher	
Before You Begin Permissions Conditions Publisher Exceptions	Browse for a signed file to use as a reference for the rule. Use the slider to select which properties define the rule; as you move down, the rule becomes more specific. When the slider is in the any publisher position, the rule is applied to all signed files. Reference file: C:\Program Files\Adobe\Reader 8.0\Reader\AcroRd32.ext Browse
Exceptions Name	Any publisher     Publisher:     O=ADOBE SYSTEMS, INCORPORATED, L=SAN JOSE     Product name:     ADOBE READER     File name:     ACRORD32.EXE     File version:     81.0.0     And above       Use custom values Rule scope: Applies to only the specified version of this file.
	More about publisher rules
	< Previous Next > Create Cancel

Figure 11. Use AppLocker to restrict or allow software based on rules, such as Publisher rules.

AppLocker can also be used in white-listing mode, which allows only specifically named software to run. If the software isn't on the white list, it's not able to run.

Users who attempt to run prohibited software will see a message like the following:



Figure 12. Message from AppLocker to a user attempting to run prohibited software

Again, AppLocker will work only if the target machine is Windows 7 or Windows Server 2008/R2. It is not available for Windows XP; only Software Restriction Policies is available for Windows XP.

Note, however, that even though AppLocker is available for Windows 7, it is not available for all *editions* of Windows 7. Microsoft's documentation (available at <a href="http://tinyurl.com/yjvh34d">http://tinyurl.com/yjvh34d</a>) shows that AppLocker is available only for the Enterprise and Ultimate versions of Windows 7; it is not available in the Professional version of Windows 7.

### Conclusion

This paper provides a number of ways to strengthen security, automate more tasks, and save money with Windows 7. Because of the power of Windows 7, it is especially important to remember to always test your GPOs in a test environment and ensure they work the way you want before you roll them out into production. You can use a tool like GPOAdmin from Quest Software to create GPOs offline, test them in the test lab, and then roll them into production when you are confident they are working as they should.

To learn more about the topics in this document (Active Directory, Group Policy, and PowerShell) and more, visit the Quest Experts Community at <a href="http://theexpertscommunity.com/">http://theexpertscommunity.com/</a>.

To learn more about how to simplify your Group Policy Management and Administration with Quest GPOAdmin, visiting <u>http://www.quest.com/gpoadmin/</u>.

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Since becoming one of the world's first MCSEs, Jeremy has performed Active Directory, Group Policy, and Windows infrastructure planning and implementation

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