

## The Importance of a Clean Windows Registry



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The importance of the registry cannot be expressed enough because it is the central database that contains all of the necessary information about your software, hardware, preferences, OS, and more. The preferences for all of these components are controlled by this single centralized data storage area and when the integrity of this information starts to become comprised, and errors start to occur within it, then you might begin to notice some serious performance declines with your PC. If you want to get the best possible performance from your PC and avoid experiencing issues with your registry, you should make every effort to keep it free from errors and avoid letting it become cluttered with unnecessary data and other information.

In simpler terms, you want to keep it small and tidy. If you fail to keep your registry in good working order and allow errors to build up, you will may see a gradual or perhaps even a sudden drop in the performance levels that your PC is capable of.

There are a number of regular registry cleanup activities that you should try and carry out on a regular basis if you wish to have a clean and error free registry in your PC. Some of these activities include:

- Registry cleaning and repairing activities
- Repair of short-cuts and obsolete references
- Registry backup

## So Why The Registry Should Be Optimized?

There are a number of reasons why you would want to optimize your registry, and one very important reason for doing so is the fact that it contains all of the configuration settings that Windows requires when it's performing just about any kind of action that you can imagine. Your computer performance will greatly be affected if errors build up in the registry and are not cleaned up on a regular basis. You'll start to experience a number of strange errors such as the blue screen of death, random shutdowns, slow performance, and perhaps even random freeze ups if you fail to keep the registry clean and free from errors. If you simply complete the few activities noted above on a regular basis, you have a much better chance at keeping your PC free of the types of errors that were just mentioned. This in turn will save you a lot of stress from dealing with a problematic PC.

## So Why Do Registry Errors Occur In The First Place?

When a computer is purchased brand new, it is in a state where nothing has been done to it yet except for the installation of the operating system, and perhaps some minor configuration settings. Other than that, you basically start with a clean slate with regards to the registry. When you get it home, set it up, and start using it, the registry immediately starts growing in size because it's recording new information about your user preferences, configuration settings, new program information, and much more. As time goes on, errors can start to occur because of improper installations and un-installations, missing file information, and other issues such as fragmented data. You would be amazed at how many registry errors could be present on your PC after just a few short months of use.

## Why Do Errors Occur?

The biggest issue with the registry is that it is not smart enough to decipher the information that is being stored within it. It's simply there to house the data which can become unorganized considering the volume of information that is stored within it. Data about everything that has ever occurred on your PC is stored within the registry from hardware installs, application installs, user settings and more. If any of the data related to these types of events becomes obsolete or invalid, then you're going to have a problem if that data is not cleaned up. The Windows operating system may still try to access that data and determine what is used for, only to find that there really is no use for the data. If you make an effort to clean up the erroneous or invalid information, then that will help solve the error, but another issue will arise in that there is now an empty space where that data used to be, and your registry will remain the same size that it was prior to that clean up task. This is known as fragmentation, which causes unnecessary growth in your registry. This can increase the amount of time that it takes for your PC to read the registry on Windows Start-up. One other issue that can arise with your registry is the installation of harmful files which then embed harmful and mischievous commands within your registry.



Over 95% of PC errors are caused by erroneous settings, registry errors, and clutter caused by everyday PC usage.

PC Booster carefully repairs all errors and cleans out junk and tunes up your system to ensure it runs just like new!



## How Can You Tell Your Registry Has Issues?

Here are some signs that might indicate that your registry is having issues after you've been using your PC for 6 months to 1 year:

- You might begin to notice that your PC does not load up as quickly or respond as rapidly to your commands.
- Random, unexpected error messages
- Harmful programs embedded in the registry
- Random shut downs and unexpected freeze ups

Here are some results that you might be able to expect if you optimize your registry on a regular basis, say once a month, with PC Booster

- Increased overall performance rates with higher efficiency and quickness
- A more stable operating environment
- Elimination of malicious programs that have been installed
- Creation of a longer lived, healthier, higher quality working experience with your current PC

PC Booster gives you the ability to automate the process of cleaning and optimizing your registry so you can have this done automatically on a regular basis for you, which is a very good proactive approach to maintaining good PC performance. If for some reason another registry cleaning software does not provide you with an automation feature, then you might consider running the cleanup processes manually at least once a month to keep your registry well optimized.

## How Is The Registry Fixed And Am I Able To Do This By Myself?

The registry is a very large and highly complicated collection of information about everything imaginable that exists on your PC. To try and clean it by yourself would be a very difficult and time consuming task. In order to clean the registry, each and every piece of information found within it has to be scanned and analyzed or compared to what actually exists on your PC. For example, information in the registry about a certain piece of hardware like a printer has to be verified with the actual hardware to make sure they are in sync. If the information does not match, then the current information has to be removed from the registry and the new information must be stored in its place. This process is repeated for virtually everything that exists on your PC, so you can see why it would take a really long time for you to do it yourself and also get very complicated.

There is a tool in Windows called Registry Editor. This allows you to view and edit information in the registry which can prevent you from having to use other software like PC Booster. However, this tool is very primitive in nature in that you are very limited as to what functions you can perform. It is often times impossible to be able to decipher the information in the registry on your own.

There are those that enjoy learning about their PC and exploring what is inside it. However, this is one area that should not be modified unless you really know exactly what you are doing and are certain the changes you make will not cause any harm. If you make a change in the registry and that change is not correct, there could be irrevocable consequences which could cause your computer to become completely unusable. That's why it's so important that you are 100% certain that the changes you make will not cause any other issues. It's often encouraged that you only use specialty programs like PC Booster to make changes within the registry.

Registry Editor is sufficient when it comes to manually editing certain values within the registry that you know need to be changed, but as far as the overall process of analyzing and repairing the entire registry goes, even the experts will opt for a software program such as PC Booster. To try and perform the task of analyzing thousands of different values within the registry would take a ridiculously long time for any one person to complete. Even then you still won't be able to tell if you covered all of the information found within it.

## **So Is There A Difference Between All Of These Registry Cleaners?**

Registry cleaners are made to scan and analyze the data found in the registry and attempt to locate and eliminate errors. That's one thing that they all pretty much have in common. How this is done can vary from program to program as they all are made with their own unique algorithms which are used in the detection process. There are also differences when it comes to the depth that they are capable of analyzing the registry. Some registry cleaners may be able to do a more in-depth analysis than others.

There are very few registry cleaners that are able to clean and repair registries that have become corrupt, and they may also ignore errors that are very difficult all together. On the flip side of this, there are some registry cleaners that go a little overboard when performing their analysis and the

might end up removing data from the registry that shouldn't be removed, thus causing errors with certain applications or settings.

You'll find that many of the registry cleaners offer trial versions which are great because they give you an opportunity to see what they can do, but they usually are limited to what they can do because of the fact that they are a trial version. This means that your registry may not get the thorough cleaning that it needs. In this case you would want to purchase a full version to get the most detailed and effective cleaning.

Unfortunately there are those registry cleaners out there that are made to provide you with inaccurate information regarding the number of errors that were detected. They often inflate the error detection numbers to win over your approval so you'll buy more of their products. Quite often they are not repairing any more errors than any other registry cleaner and are simply dividing up one error into multiple errors for the purpose of showing better results on the reporting. They may also perform unnecessary error fixing activities on errors that will simply eliminate themselves shortly thereafter they occur.

There are registry cleaners out there that are not well designed in accordance with the way that Windows is designed, meaning they do not work well with the Windows operating system. These types of registry cleaners have been known to cause problems with some of the more common programs like Microsoft Excel. Some have also made attempts at analyzing and cleaning the registry while Windows was still in operation which can cause more harm than good to your PC.

Some registry cleaners are made to clean the registry, but then that is it. They are not made to perform any other activities like defragmentation. This is another important process that should be run every time the registry is cleaned. A good registry cleaner should also give you the option to backup your data before executing any of the tasks that it is capable of.

## So How Do Pick The Registry Cleaner That You Will Us For Your PC?

You'll find that there are a ton of options for getting your hands on a registry cleaner to scan and analyze your registry for errors, but how do you know which one is the best or which one will get the job done for you?

- You might want to find a registry cleaner that is made by a software company that you know and trust. Your experience with other products that they provide may have been very good, so you would be willing to put your trust in them to fix this very important component of your PC. Make sure that they have a live PC support that can help you with any issues that may arise should you need further help.
- Make sure that the registry cleaner you are considering is able to perform other functions like PC tune-up, disk clean-up and backup, not just the registry cleaning activity. This is important if you want to fully optimize your PC for maximum performance.
- Make sure that you choose a user friendly registry cleaner that will provide with a fully functional user interface and also give you the option of automating tasks as well as performing tasks manually.

## Steps For Optimizing Your Registry

Here are some of the steps that you should perform on a regular basis in an attempt to keep your registry full optimized for maximum PC performance:

- Cleaning And Repairing
- Repair of short-cuts and obsolete references
- Registry Backup

## Cleaning and Repairing

When you use your computer on a regular basis, a lot of information can change within your registry, which means that the potential for errors is increased. When you use a registry cleaner, you are performing a safe Windows friendly process that will help eliminate those errors from your registry. The process is simple, analyze the data in the registry and compare that data to what really exists on your PC to see if they match. If the information in your registry doesn't match what is on your PC, then fix it. This is the process of eliminating errors in your registry. Registry cleaners will also remove harmful or malicious software that might be causing issues in your registry as well.

## Defragmentation and Compacting Efforts

As you use your PC day in and day out, the registry will take on new information and it will expand in size over the usable life of the PC. Because data is constantly changing, new values are being added and old values are being removed. When old values are removed the empty space still exists. This empty space is still technically contributing to the overall size of the registry. Defragmentation process can eliminate empty spaces like this, thus decreasing the size of the. While defragmenting can be marginally beneficial, its implementation itself can have risks

First defragmentation should not place in a Windows session, which most registry programs do and can cause more problems. The second, registry fragmentation needs to take place before a PC boots-up. This can be a considerable inconvenience to business users and all users alike who need to get into work quickly and not wait around while the computer fragments the registry before boot-up of a PC. In addition, registry fragmentation and compaction is too risky and time consuming to be done in a Windows session and offers marginal performance benefit.

## Registry Backup

When you perform any type of major change on your PC, it's important that you back up any important information that you might have a use for later on. The same is true with the registry. Because your registry contains so much information that is absolutely critical to the stability of your PC, you should backup your registry every time anything is done to it. This will allow you to restore it and retrieve vital information in the event that something was to happen.

