

# CYBER SECURITY

## newsletter

### BROWSING THE INTERNET SAFELY

#### Problem

The Internet has become one of your most powerful tools for many tasks, such as searching for information, communicating with friends and co-workers, shopping online, and managing your finances. In almost all of these cases the primary tool you use is your browser, such as Internet Explorer, Chrome or Mozilla Firefox. Your browser is in many ways your gateway to the Internet.

Because so many people around the world use and depend on browsers for their daily Internet activities, your browser is also a primary target for cyber criminals. Cyber criminals around the world have developed new attacks and built malicious websites designed to hack your browser and infect your computer. Once hacked, attackers quickly gain total control of your computer and all your information without you knowing it. By protecting your browser and using it wisely, you can protect yourself against these threats and safely use the Internet for your daily activities.

#### Solution

Here are steps you can take to protect your browser and yourself.

**1. Your Browser.** A key step to protecting your browser is whenever possible use the latest version. The company that developed your browser is constantly adding new security measures and features to enhance it's protection. By using the latest version you ensure you have the latest security mechanisms in place.

In addition to running the latest version, make sure your browser is always updated. Cyber criminals are constantly finding new weaknesses in browser software. As a result, your browser vendor is constantly releasing new patches to fix these known weaknesses. To ensure your browser is always current, enable automatic updating. With automatic updating your browser continually checks to see if there are any new patches, as soon as a new patch is released your browser or operating system will download these patches and update the browser.



#### Protecting Your Browser

*Your web browser is your primary tool for using the Internet. It is also the number one target for cyber criminals. By protecting your browser, you protect yourself against many of today's attacks.*



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# Avoid Bad Neighborhoods

*In a lot of ways the Internet is a like a big city. It has everything you need, from banks and shopping centers to sports events and movies. However, just like any big city the Internet has good neighborhoods and bad neighborhoods. Good neighborhoods are made up of friendly websites that you know and visit. These are websites that usually will not try to hurt you.*

*Unfortunately, just like in most large cities there are also bad neighborhoods on the Internet. These neighborhoods are parts of the Internet where websites are designed to attack or harm you or your computer. Some of these websites distribute infected software, such fake screensavers or infected games that will take over your computer. Other malicious websites will attempt to attack and hack into your computer when you simply connect to them.*

*Just like in a big city, one of the simplest ways to stay safe is to avoid bad neighborhoods. If you have never heard of the website before, if the URL information looks incorrect or suspicious, or if the website looks like it has dodgy information, then do not download any software nor submit any information to it. Sometimes it is hard to tell if a website is good or bad, that is why it is also important to take all the other precautions described in this newsletter.*

**2. Avoid Plugins.** Plugins or Add-ons are additional programs you can install in your browser to give you more functionality. For example, Adobe Flash, Java or Apple QuickTime. Every plugin you add becomes another window for attackers to break into your computer. In addition, it can be difficult to keep these plugins current because very few of them have auto-updating features. Install only plugins that are authorized and that you absolutely need, and be sure that you always have the latest version installed.

**3. Scan All Downloads.** In addition, a key step to protecting yourself is scanning all downloaded files from the Internet with updated anti-virus. When you download and install or run a new program, that program may be infected. It may appear to work just fine but will attempt to silently infect your computer. This is very common especially with free files, such as free screensavers or games. Be sure to scan anything you download with anti-virus before opening or running it.

**4. Website Filtering and Protection.** Browser website filtering (often called Smartscreen Filtering, blacklisting or phishing protection) will stop you from visiting dangerous websites that may try to attack your browser and you. You may not realize it, but there are websites on the Internet that are designed to hack into your browser or computer just by visiting them. Website filtering is a list of these known, dangerous websites that you do not want to visit.

At any point in time there are literally thousands of such websites on the Internet today. If you try to visit one of these known, malicious websites, website filtering will block your attempt and explain you were trying to visit a known, malicious site. Most Internet browsers have enabled this feature by default, however you should double check to be sure that yours is also enabled.

**5. Additional Security Settings.** In addition to what we have discussed so far, one more step you can take is changing the security settings on your browser. Some browsers such as Internet Explorer have additional browser security settings. You may want to consider configuring your security settings to a higher level. While it might stop some legitimate sites from working, it will go along way in keeping your system secure.

**6. Mobile Devices.** Keep in mind these guidelines are not just for your computer but for any mobile devices you may use, including smartphones or tablets. While browsers on mobile devices may have less features and fewer options, you still must keep the secure. As we discussed on the first page, one of the most important things you can do to keep your browser secure on mobile devices is always run the latest version.