East SIG Report – February 2020

The February meeting opened with **George Skarbek** conducting his usual Q&A segment.

Q: I'm running Windows 7 Ultimate on my desktop and I understood it would no longer be updated. However last night when I turned my desktop on, it updated as it had in the past. I was also able to update Security Essentials. Will Win 7 still keep updating?

A: Windows 7 will probably keep updating infrequently, but only for critical security issues. There will be no new features, no add-ons and no improvements, but critical vulnerabilities are likely to be patched.
Windows 10 is a far more secure operating system. However, if you need to run older programs that will only run under Windows 7, then I'd suggest running Windows 7 in a Virtual Machine. If your PC is fairly old, with limited resources and it's all you need for the work you do, I'd say stick with Windows 7. Antivirus vendors will still be updating their antivirus programs for Windows 7 and critical vulnerabilities will most likely still be patched. There are organisations such as the American Navy that pay MicroSoft to update Windows 7 so it's secure, hence critical vulnerabilities should still be patched.

Q: When I was running Windows 7 I was very happy with its calculator, but I haven't been able to find that calculator in Windows 10. How can I find the Windows 10 calculator? Can I copy the calculator from Windows 7 into Windows 10?

A: The calculator in Windows 10 can be found by selecting Search (the magnifier symbol on the task bar) then selecting the calculator tab. The Windows 10 calculator has standard, scientific, programmer & date calculation calculators plus a very basic unit converter.
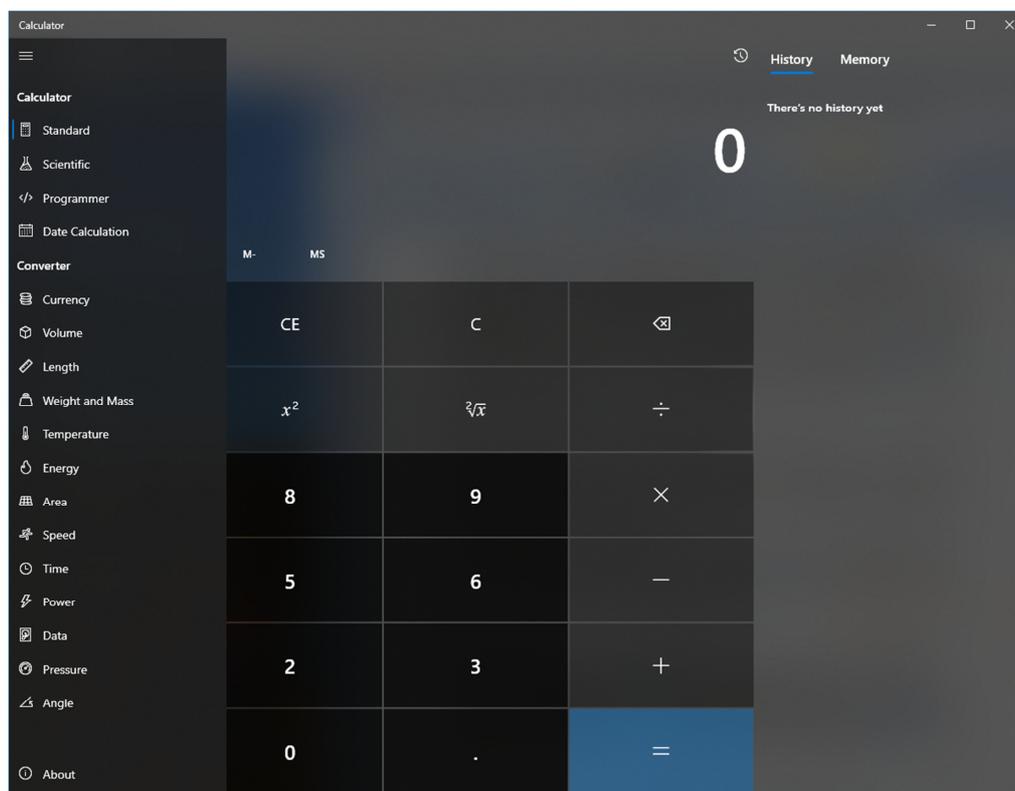

Figure 1 – Windows 10 calculator

[Neil Muller]
An internet search (copied below) shows how to transfer the Windows 7 calculator to Windows 10.

```
If you have a running windows 7 installation you can just copy the following files:

c:\windows\system32\calc.exe
c:\windows\system32\en-US\calc.exe.mui

(the sub folder does depends on your localization e.g. 'de-DE' for Germany)

You can copy it to any place just recreate the sub folder and fill the mui file there so
that the hierarchy is recreated.

C:\path\to\your\folder
|
+-- calc.exe
|
+-- en-US
    |
    +-- calc.exe.mui
```

Q: I've lost the Google Play icon on my Android phone. Is there any way to get it back?
A: I haven't tried this but I'd search Google Play Store and you'll get to it from there. I'm not sure how you would turn that into an icon on your phone.
   [John Hall] On most phones you'll have a section called Apps and you should find the Play Store app there.
   [Reply] Its disappeared from Apps as well.

Q: I have old DOS programs and I'm wondering whether they will run well under Windows 10 or do I need to run them in a DOS box?
A: If it's a DOS program it will in a DOS box. I use a DOS box on a daily basis to run various macros, shortcuts etc. On only one occasion has a DOS program failed to run in a DOS box and that was a 1991 program.

Q: Recently Google has dropped the resolution of images in Google earth and I can no longer zoom in to see greater detail in an image. Do you know of any way you can go back to an earlier version of Google Earth?
A: I don't think Google has reduced the resolution of its Google Earth images.
   [Audience member] I just installed Google Earth and I think the resolution is better. I can now see greater detail than I could before.
   [Brian Heywood] The resolution is better in populated areas than other areas, so maybe that's what you're noticing.

Q: I tried to run Clipper in a DOS box in Windows 10 and it refused to run.
   [Neil Muller] Clipper is a computer programing language (compiler) originally used to create DOS programs.
A: I last used Clipper a long time ago in a previous version of Windows. Try Windows compatibility mode to go back to an earlier version of Windows. I've previously run Clipper in a Windows DOS box in the earlier version of Windows so I think that may work.
   There are two DOS boxes in Windows 10 so give both of those a try. If you type "cmd" a DOS box will come up. To reach the second type of DOS box from the cmd prompt type "command". A different DOS box will then appear which gives you all the ANSI (American standard numeric or alphabetic codes) characters and colours which a "cmd" DOS box won't.

Q: We've just received notice that NBN is available in our area. Is it best to draw out the period before connecting and is it worth keeping a landline when it's now over the internet and subject to power outages?

A: You will lose your landline phone during blackouts as your NBN phone is over the internet. Most people have mobile phones which will give phone coverage in those situations, so blackouts are not a significant issue. For critical situations, you can purchase a UPS (Uninterruptible Power Supply) for $100 or less. If you only connect the UPS to the modem and router, the UPS should keep your phone going for a number of days as both draw very little power. That assumes the battery in your phone lasts.

Should you delay connecting to the NBN? The answer to that varies depending on your situation. Your current download speed and cost are two factors to consider. When contacting the various RSPs (Retail Service Providers) when deciding to move to the NBN, my advice is to haggle. Tell them you've got a better deal from another RSP and ask "what can you give to me". Things you could request are, a lower cost than their first quote, a free phone, no line rentals, free calls to anywhere in Australia and maybe overseas, then ask for better speed.

Following Q&A **Trevor Hudson** played a YouTube video he prepared titled "YouTube Handy Keyboard Shortcuts". In Trevor's video he details over 20 handy keyboard shortcuts for watching YouTube videos. Below I have featured what I believe are the most useful of those. I have omitted shortcuts relating to captions, but these and all the shortcuts featured in the video are listed under the YouTube video. Unfortunately these shortcuts are not suited to smartphone use.

Key	Text
K	K to Pause or Play video
Space Bar	Pause or Play video
J	J goes Back 10 seconds
L	L goes Forward 10 seconds
Left Arrow	Left Arrow goes Back 5 seconds
Right Arrow	Right Arrow goes Forward 5 seconds
K + ,	K (Pause) and Comma to go back one frame at a time
K + .	K (Pause) and Full Stop to go forward one frame at a time
Shift & ,	Shift plus Comma Slows video down to quarter normal speed
Shift & .	Shift plus Full Stop Speeds video up to 2 times normal speed
Home	Home key goes to Start of video (Number 0 does the same thing)
Number Key	Number 5 key goes to 50 percent of video. (10 to 90 percent etc.)
T	T to watch in Theatre or Cinema size
I	I to watch the video in Miniplayer size
F	F to watch the video in Full screen size
ESC	Escape key returns to Normal size (or press F again)
Down arrow	Decreases Volume by 5 percent each press
Up arrow	Increases Volume by 5 percent each press
M	M to Mute or unmute sound

Following Trevor's presentation, **Paul Woolard** showed how you can still obtain a free upgrade from Windows 7 to Windows 10. The first step is to obtain an ISO file of Windows 10. The Gizmo Freeware website at https://www.techsupportalert.com/content/how-download-windows-10-iso-directly.htm shows how to do this. The process of installing Windows 10 is then described in a video and article by Ed Bott of ZDnet. (Reference https://www.zdnet.com/article/hands-on-with-windows-10-upgrading-installing-and-activating-in-the-real-world/).

When installing Windows 10, 32GB is now required on your hard drive for the Windows OS and to allow space for future upgrades.

There are 2 options to consider when installing Windows 10. If you are upgrading multiple computers then installing the ISO file on a bootable USB stick is the best option. For a single computer double-clicking the ISO file is the easiest approach. The computer then assumes you're running the ISO from a separate hard drive.

If you are upgrading a computer with an existing Windows version on it, you don't have to worry about the Windows product key, as the product key from your existing installation is used. If the installation is to a new hard drive you will need to enter a product key from a previous activated Windows OS.

After a refreshment break, **Dave Botherway** gave an informative presentation on "Data Security …Password Managers". Dave showed examples of the most common passwords used in 2011 and today. People's choice of passwords has not changed much from 2011 to 2019, in fact, it is worse now than in 2011. People still use simple passwords and the same password across multiple sites.

To beat the hackers you need complex and separate passwords for each site requiring a password. The minimum for a complex password is 8 characters long, containing upper and lower case letters, numbers and special characters. As it is difficult to remember such passwords, a Password Manager is needed to generate and store passwords.

Dave then summarised the desirable functions a good Password Manager should have. In summary, these are:
- Import your passwords from your current browser
- Generate passwords
- Two-factor authorisation (email/phone)
- Offer browser extensions
- Record other details such as credit cards, bank accounts etc.
- Folder organisation for different categories
- Local storage of passwords for offline use
- Passwords that are accessible from multiple devices and operating systems
- Cloud storage for syncing multiple devices.

Dave then listed a number of Password Managers that offer most of the desired features mentioned. A Password Manager only requires you to remember a single master password, but that password needs to be very good and memorable.
- LastPass – free & paid versions
- Dash Lane – free up to 50 passwords
- KeePass – Open source
- 1Password – No free version
- Firefox Lochwise – a new free open source browser addon. Firefox is now expanding functions within their browser with addons such as Sync (to sync Firefox across multiple devices), Monitor (to lookout for your passwords), Send (to send files up to 1GB from any browser or 2.5 GB from Firefox, plus set the duration up to 1 week and how many times a file can be downloaded) and Lockwise (a Password Manager)
- Bitwarden - Open source free & paid versions. Premium version $10/year

Recommendations from the website www.codeinwp at https://www.codeinwp.com/blog/best-password-manager/ rates LastPass and Bitwarden as the best free Password Managers.
The Gizmo Freeware website at
https://www.techsupportalert.com/content/check-out-our-new-top-pick-best-free-password-manager.htm?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+gizmosbest+%28Gizmo%27s+Best-ever+Freeware%29 is also recommending BitWarden as the best Password Manager.

	LastPass	Dashlane	Bitwarden	1Password
Browser extensions?	✅	✅	✅	✅
Mobile apps?	✅	✅	✅	✅
Two-factor authentication?	✅	✅	✅	✅
Family plans?	✅	✖	✅	✅
Open source?	✖	✖	✅	✖
Free plan?	✅	✖ *	✅	✖
Starting price for pro?	$36 per year	$40 per year	$10 per year	$36 per year

Technically it exists, but it's overly restrictive and not viable for most users.

Figure 2 – Password Manager Comparison chart from www.codeinwp.com

In summary:
- For most people, there is a definite need to upgrade their password protection.
- Passwords must be complex and used only once.
- Use a management tool, anyone is better than none.

A demonstration of the free version of Bitwarden followed (download Bitwarden at https://bitwarden.com). Dave described how to add the Bitwarden extension to Chrome, how to create a Bitwarden vault and then how to generate a unique password. The Bitwarden vault is where passwords are stored requiring only a single password to open and view all stored passwords.

Following Dave's demonstration a YouTube video tutorial titled "How to easily manage your passwords online (Bitwarden)" was played. The video explained the use of Bitwarden from the first step to last and can be view at https://www.youtube.com/watch?v=oh7FtqCK5Z0

A question from the floor asked how secure passwords are when stored in the cloud, particularly when Bitwarden is open source. Anyone can look at the open source code for back doors, but Dave believes the pros far outweigh the cons.

Neil Muller