2020

BIOS-SHIELD User’s Guide

This User's Manual is designed for both new and experienced users to provide step-by-step guidance in setting up BIOS-SHIELD initially as well as activating key features. You can find more details on the features and functions on our website at http://www.bios-shield.com

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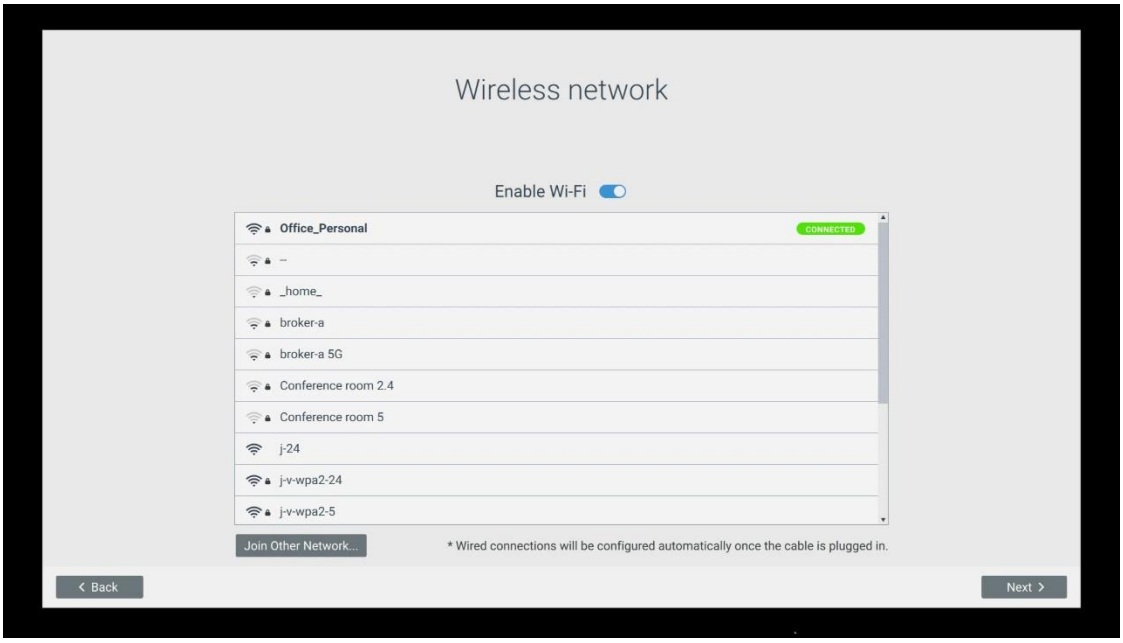
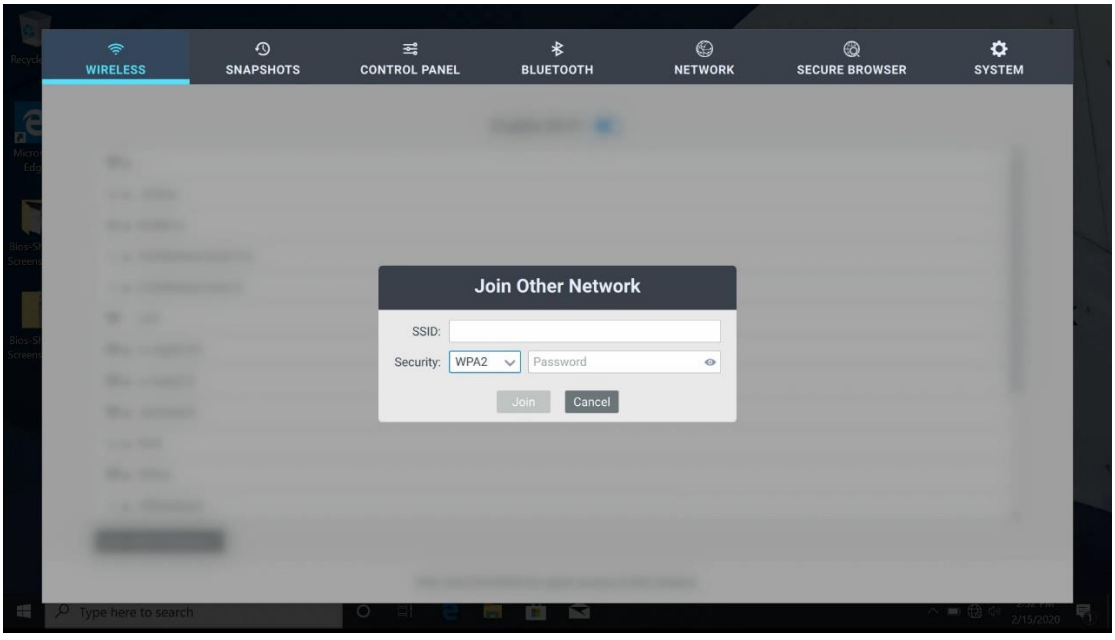
To begin, Use Ctrl-Alt-B to invoke BIOS-SHIELD GUI

Wireless connection:

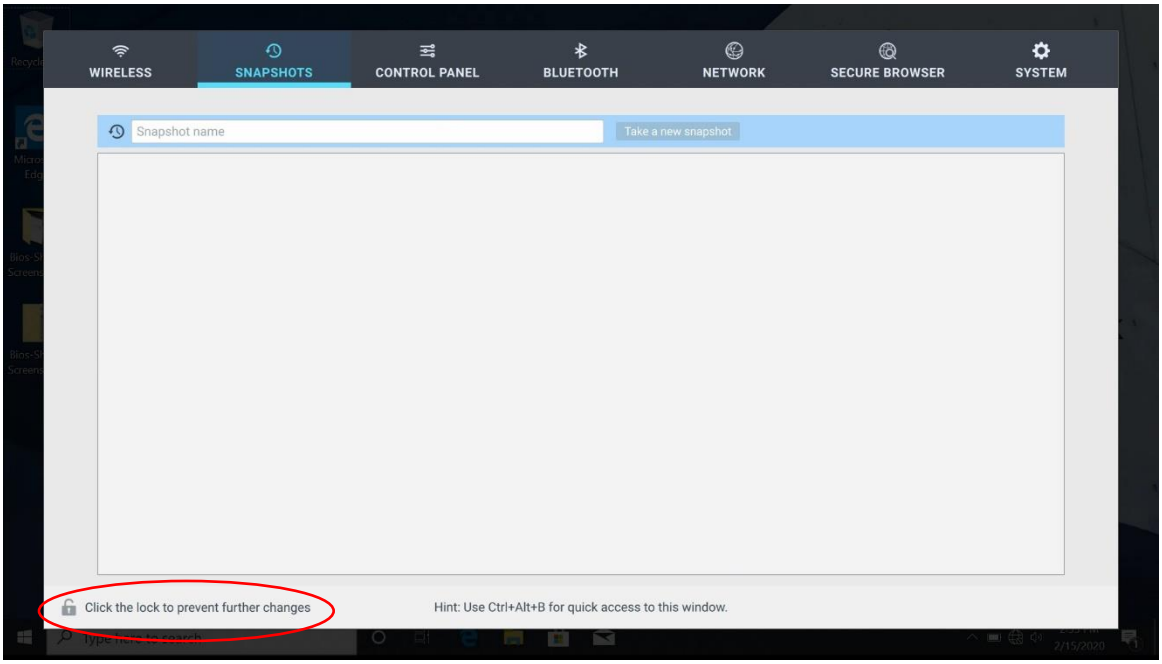


When the Wi-Fi is enabled, BIOS-SHIELD will scan nearby wireless access points. Select a wireless point and enter password to connect.

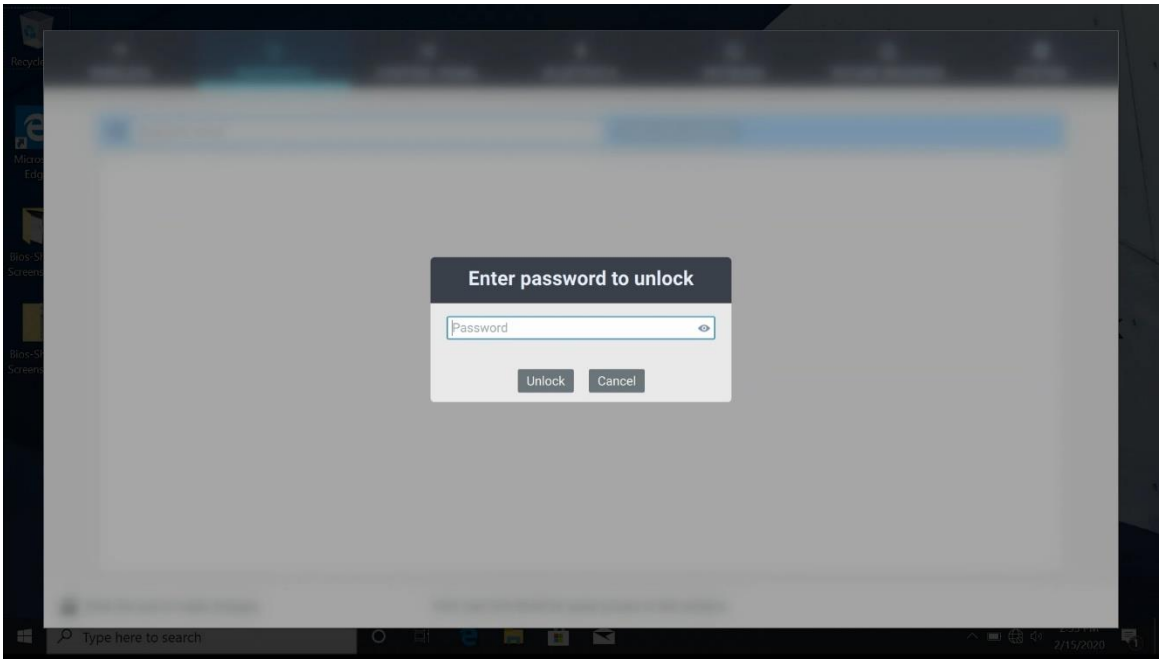
If a wireless access point is hidden (not broadcast), please click “Join Other Network” and enter SSID name, use pull down menu to select Security type and enter password. Then click “Join” to connect to wireless network.



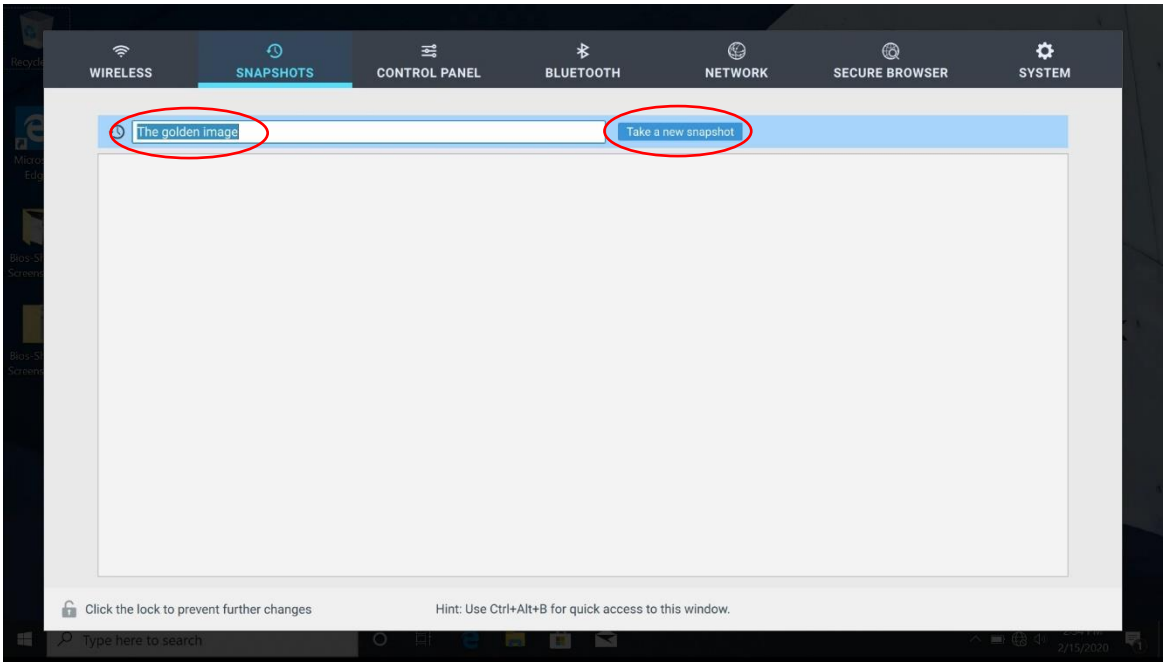
Setting up the Snapshot Feature:

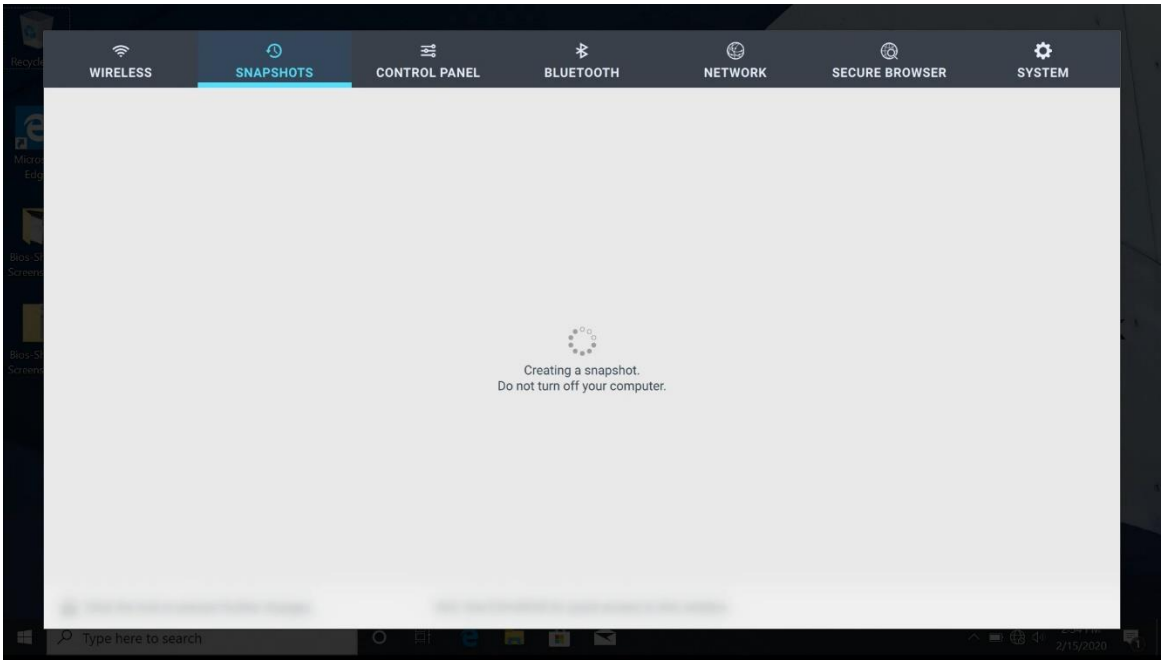


Click the unluck icon and enter BIOS-SHIELD password



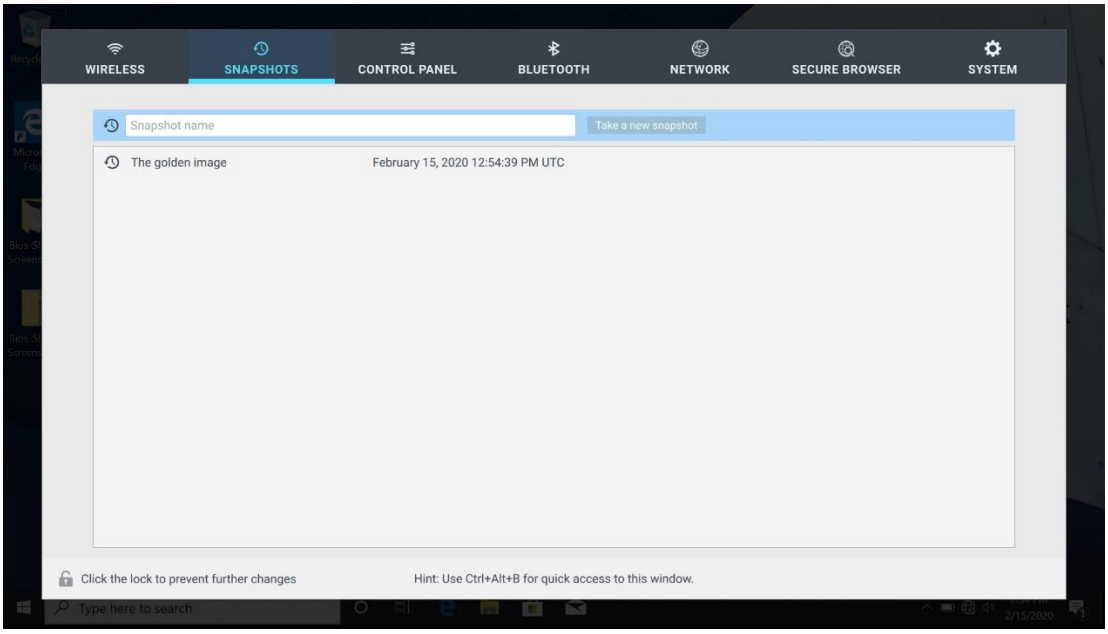
After entering the correct password, BIOS-SHIELD snapshot UI will be available. Enter the name of the first snapshot point. For example: “The golden image” and click “Take a new snapshot”



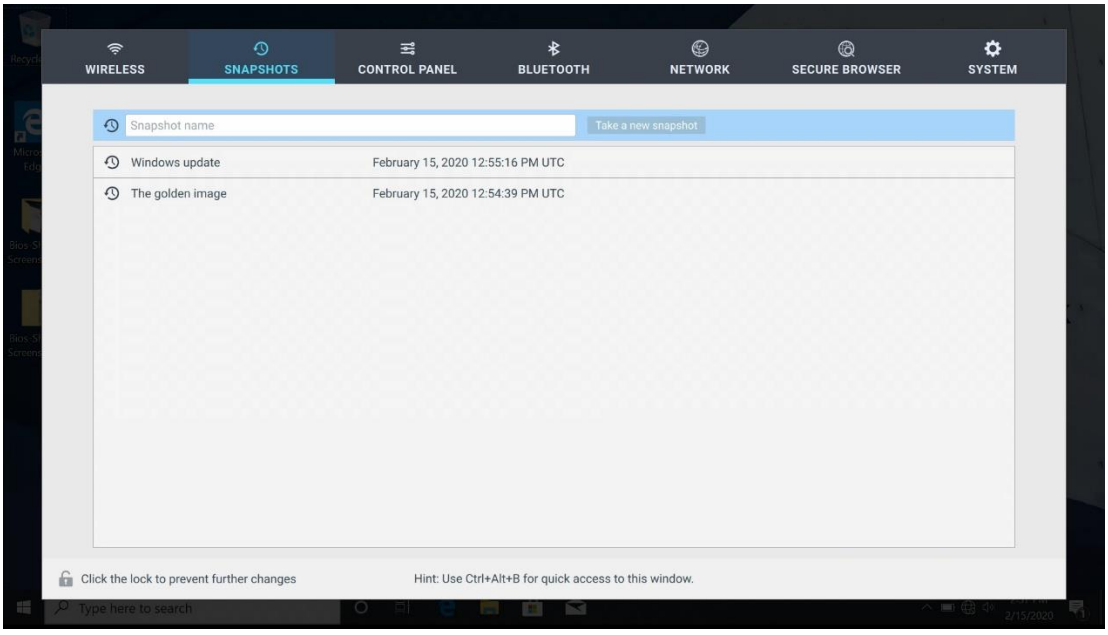


BIOS-SHIELD will create a new snapshot point. The time required for a snapshot point creation can vary. If your computer has a lot of active tasks and hard disk access (for example, Windows update running in background), it may take longer time.

Snapshot point created.

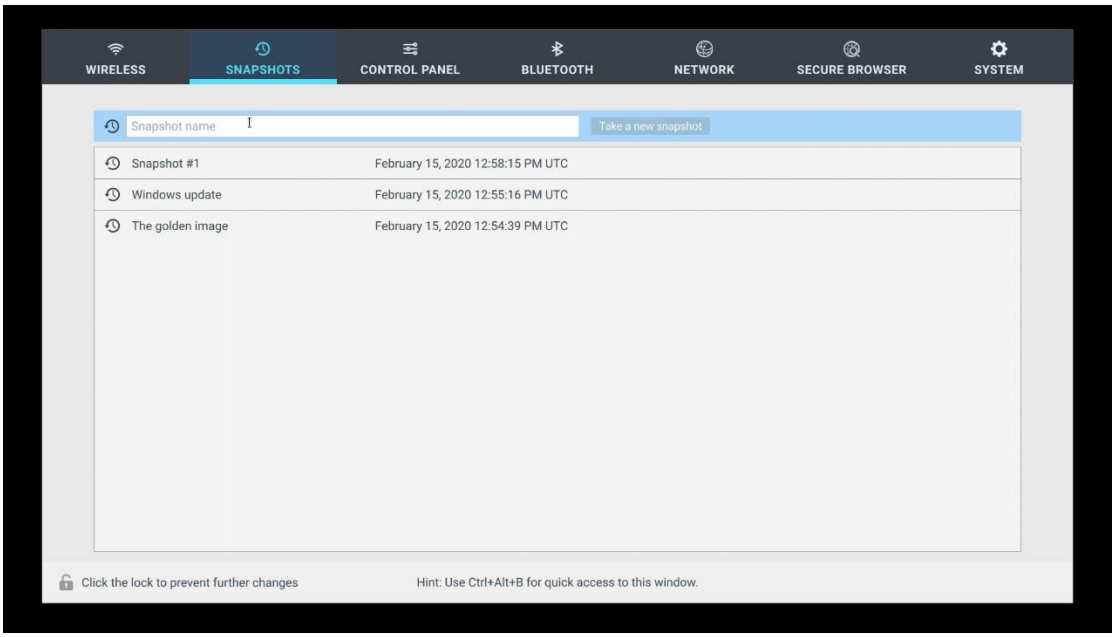


You can create snapshot points whenever they are needed. For example, it's a good idea to create a snapshot point after a major milestone such as "Windows Update".



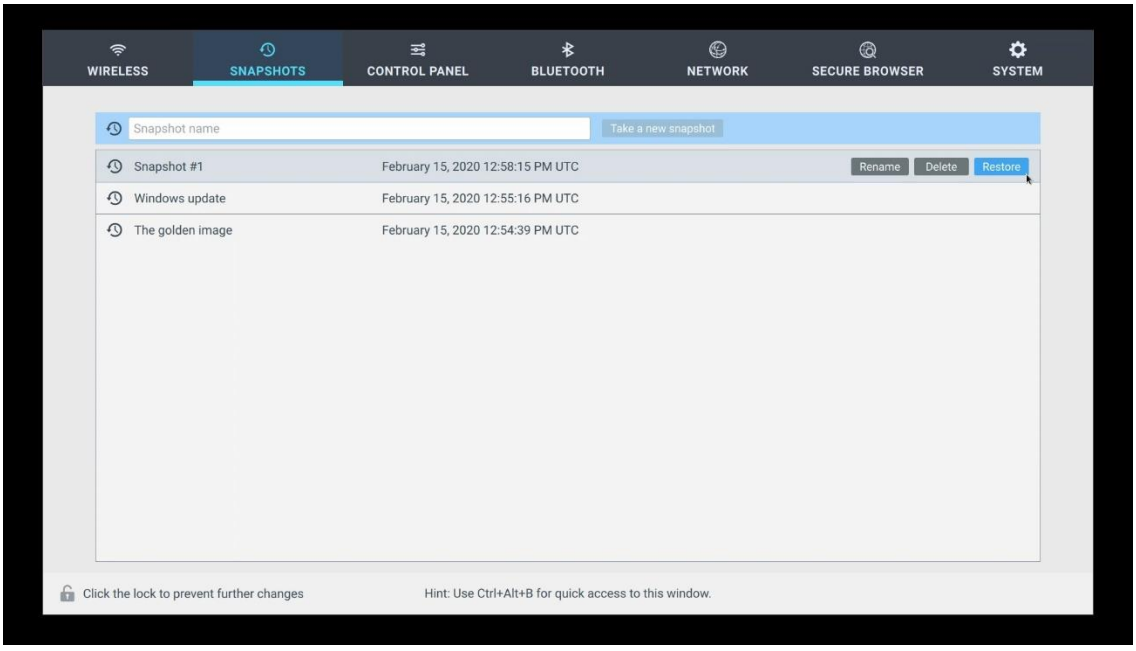
How to restore a snapshot:

Once you create some files on the desktop, you should go ahead and create a snapshot name “Snapshot #1”

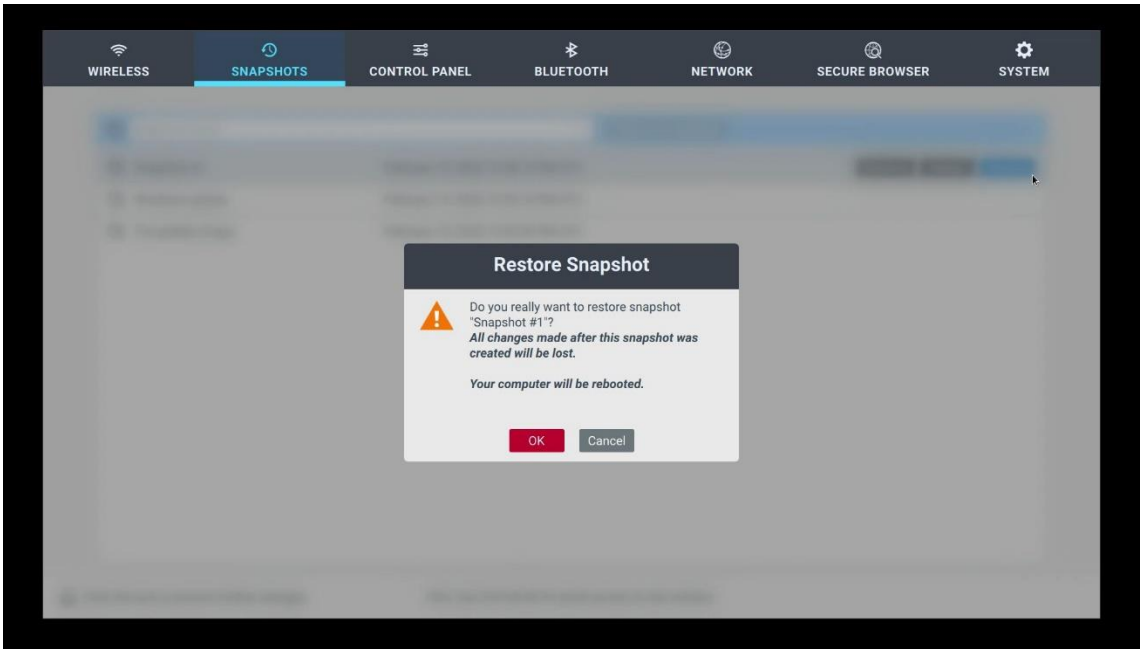


Afterwards, go to Windows desktop to delete those newly created files (file1 and file2)

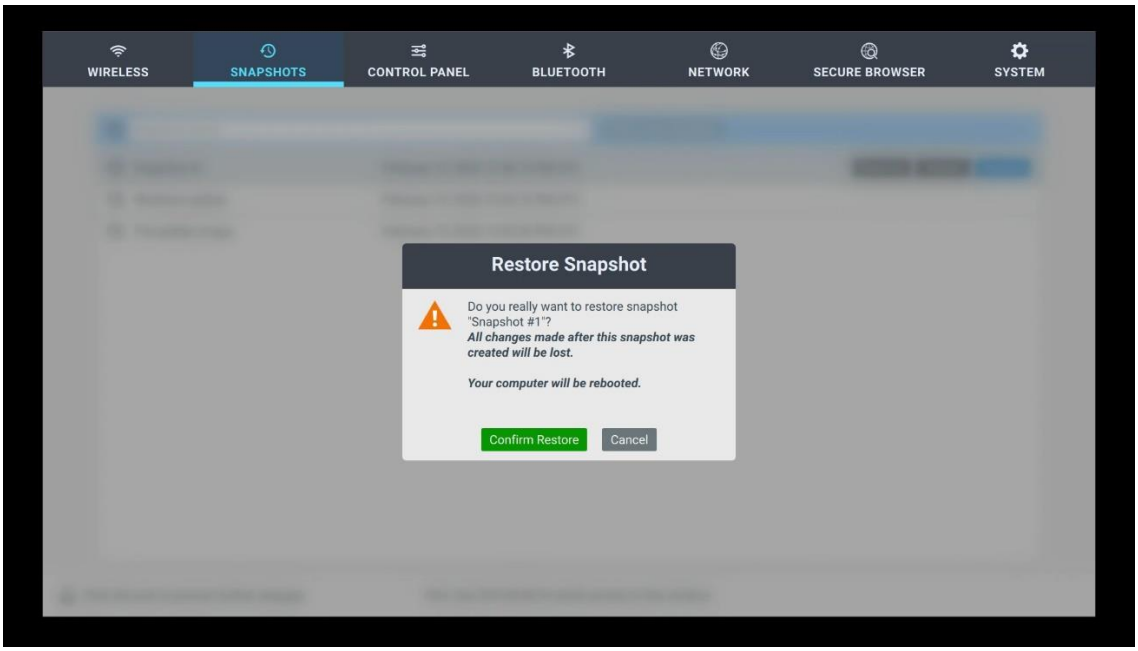
Ctrl-Alt-B to BIOS-SHIELD, select SNAPSHOTS tab, enter BIOS-SHIELD password to unlock, select snapshot #1 and click “Restore”



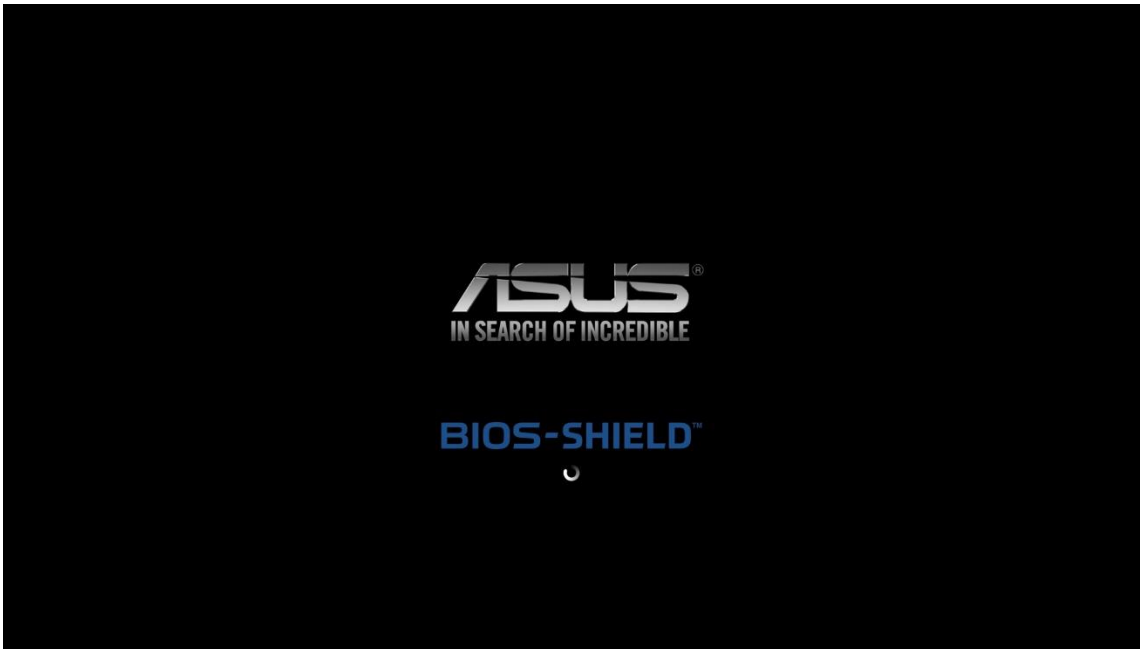
BIOS-SHIELD will remind users of any changes made after “Snapshot #1” will be lost. Press OK if you agree to proceed.



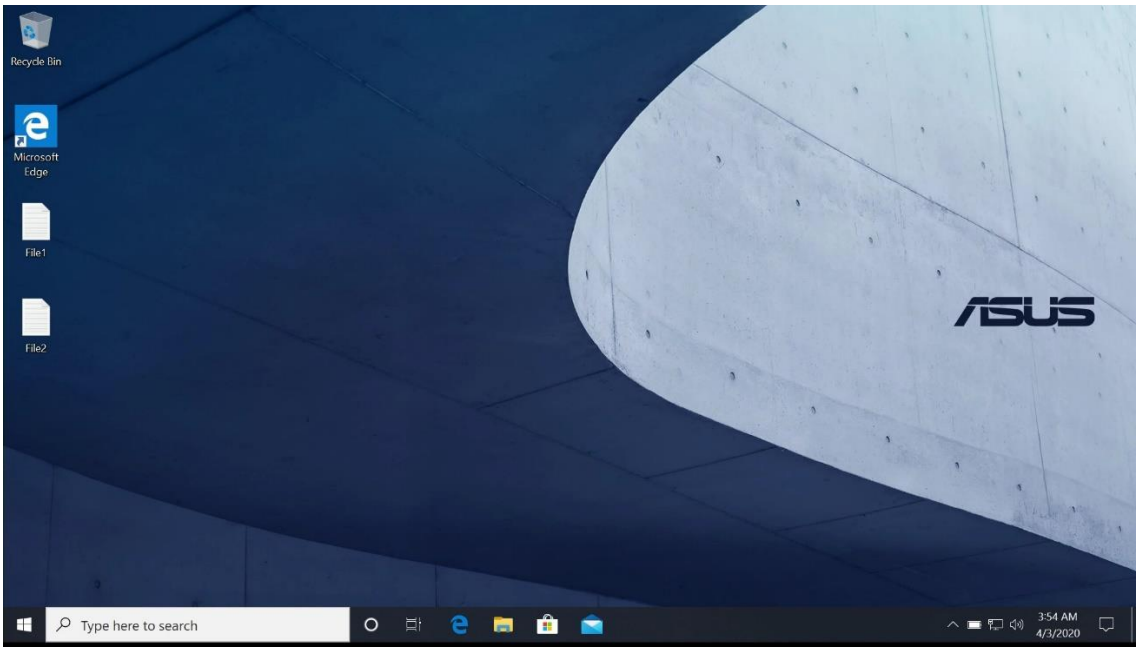
BIOS-SHIELD asks for confirmation. Click “Confirm Restore” to proceed.



Computer reboot



After snapshot restores, File1 and File2 will be restored to the Desktop.



Rename Snapshot:

You can also select a snapshot and rename it to a more descriptive name.

Delete Snapshot:

If you don't need a snapshot that you created 2 months ago, you can simply select it and delete it.

Best Practice:

It's recommended to create snapshots at regular intervals and at certain event. For example, prior to running a new software that you download. If you are unsure if it is compatible with your system, it's good idea to create a snapshot. Should the software conflict with your computer, you can quickly restore to it to the latest snapshot point.

Snapshot feature helps users protect their data. It does NOT provide virus protection. It's recommended to use Anti-Virus software and keep it up-to-dated.

Snapshot feature works in conjunction with an Anti-Virus solution.

Control Panel:

USB control: Enter BIOS-SHIELD password to enable USB control

USB control is done by device type

Mass Storage: USB hard disk, USB thumb drive, USB card reader, USB CD-ROM/DVD-ROM, SD-Card Reader

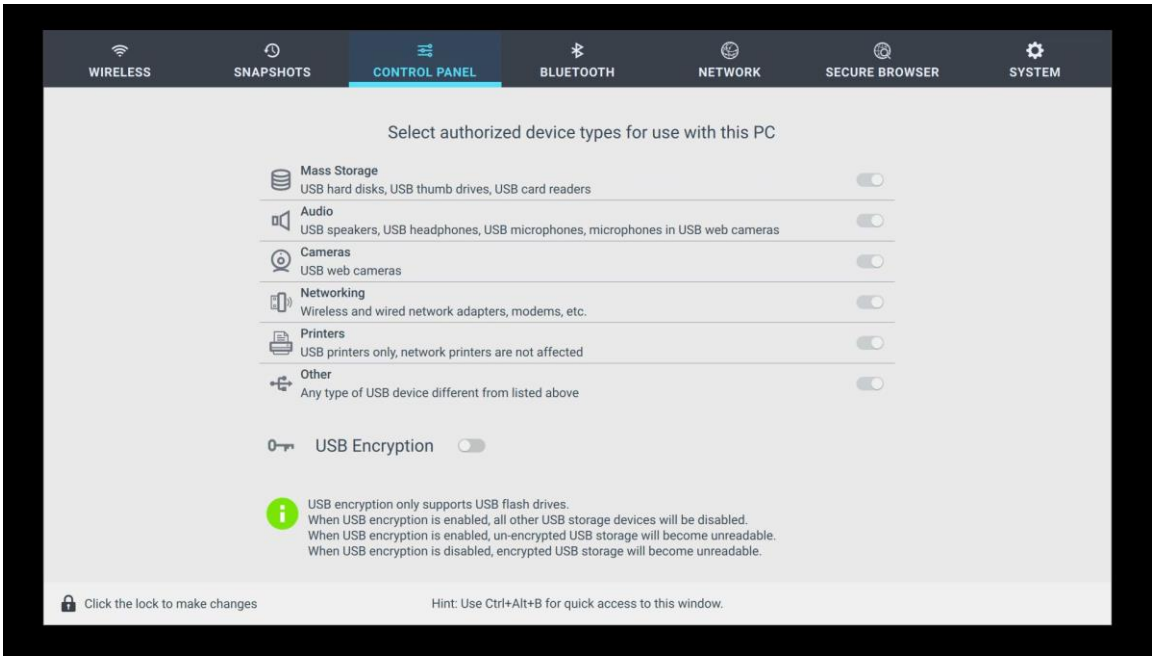
Audio: USB speaker, USB headsets, microphone built-in with USB Webcam

Cameras: Build-in camera in your laptop or USB Webcam

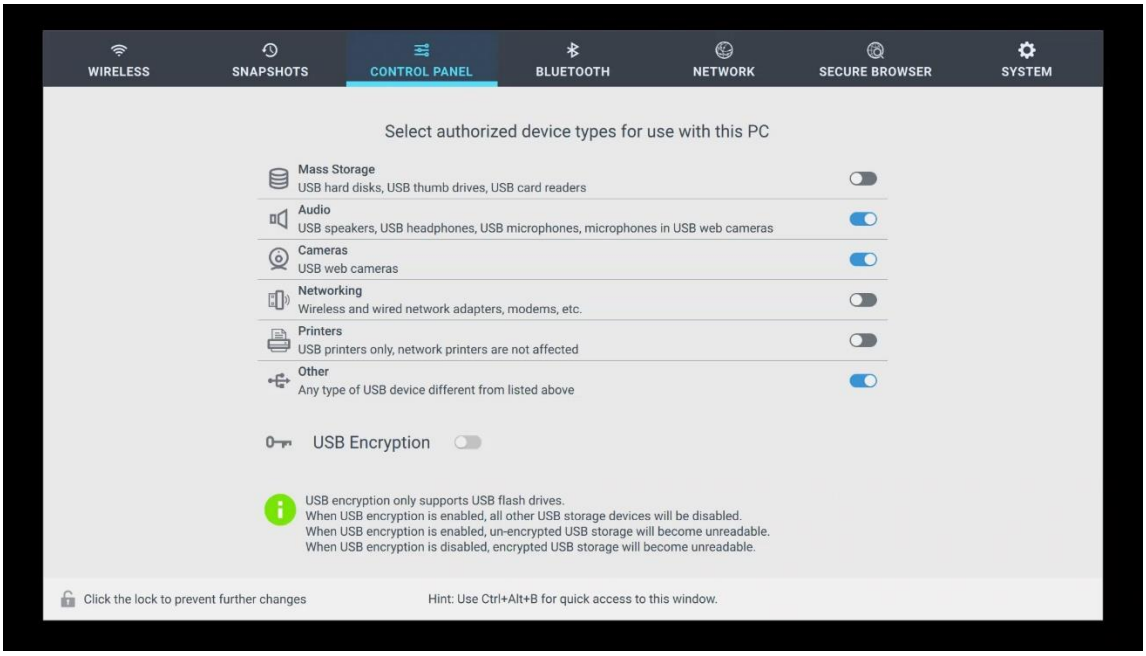
Networking: Wireless and wired USB network adapters

Printers: USB printers. Network printers is not affected.

Other: Any type of USB devices not included in the categories above



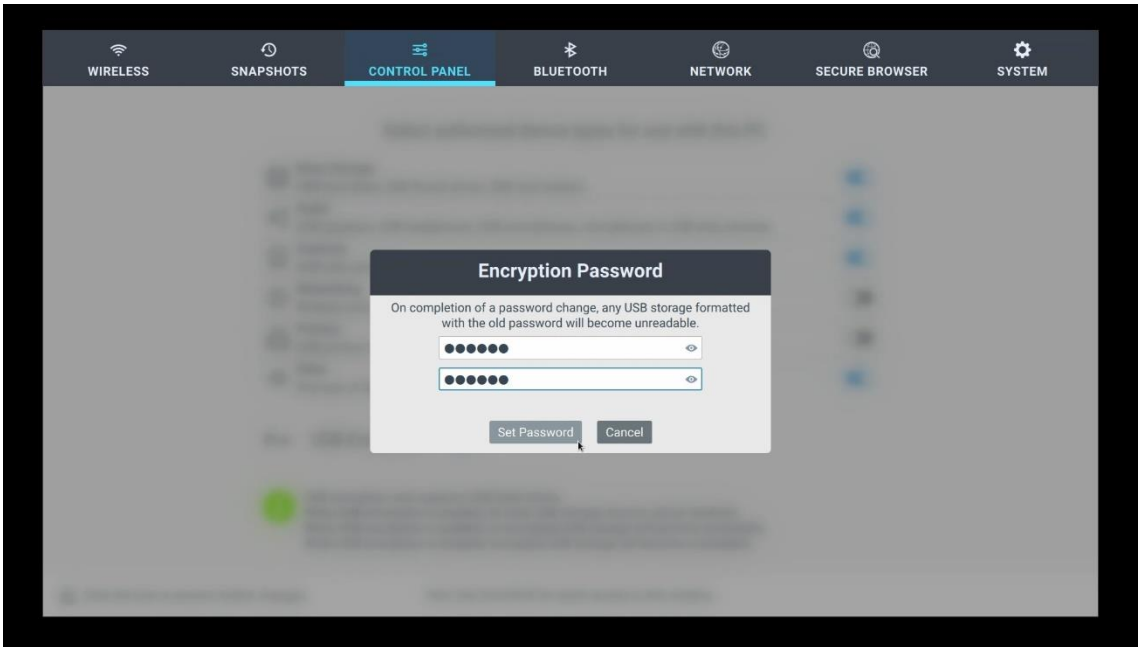
Example:



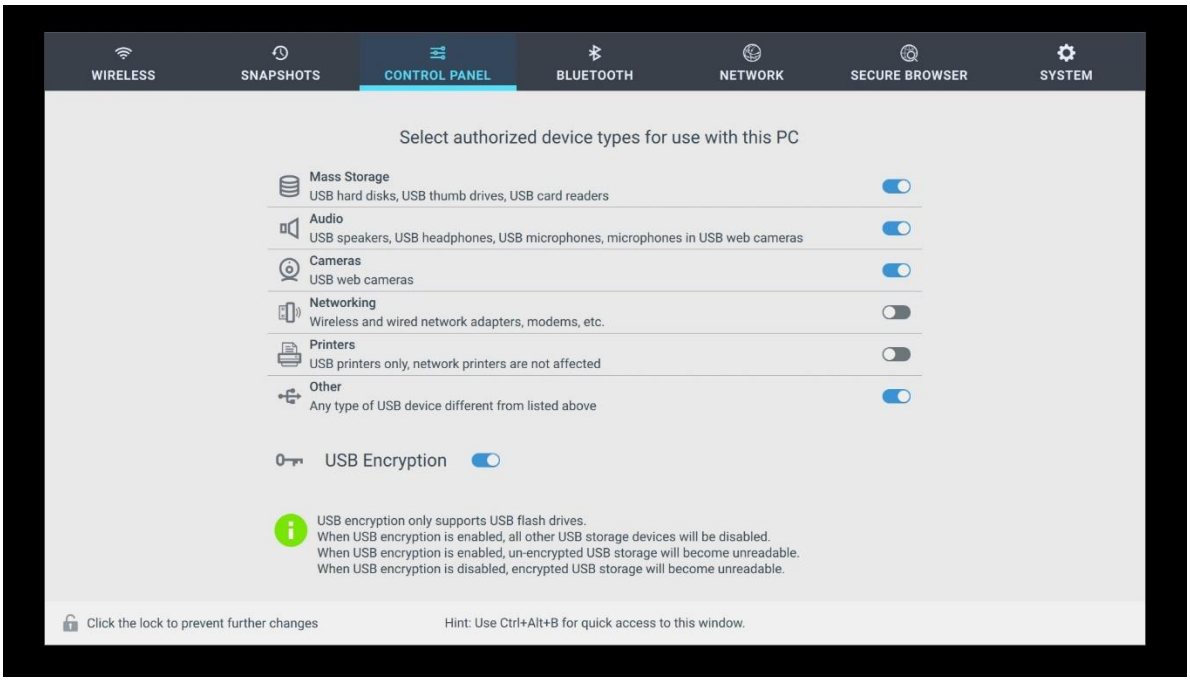
USB Encryption:

If you want to use USB encryption, you will need to enabled Mass Storage and then turn on USB Encryption switch

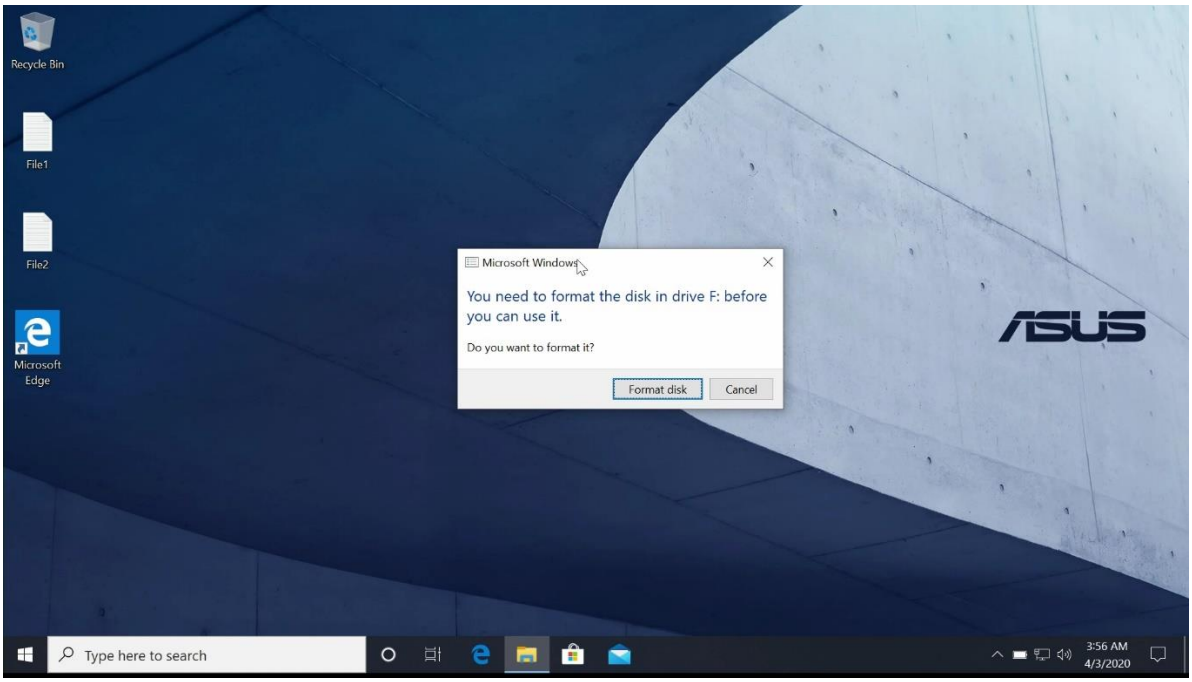
Enter USB Encryption Password.

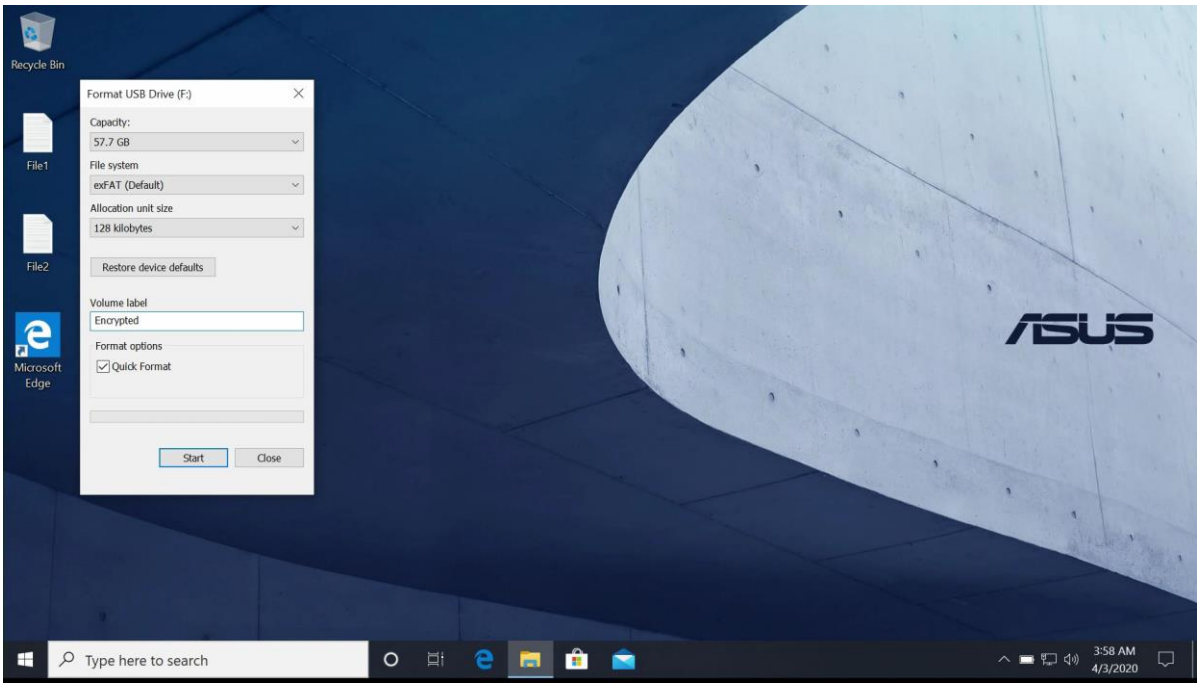


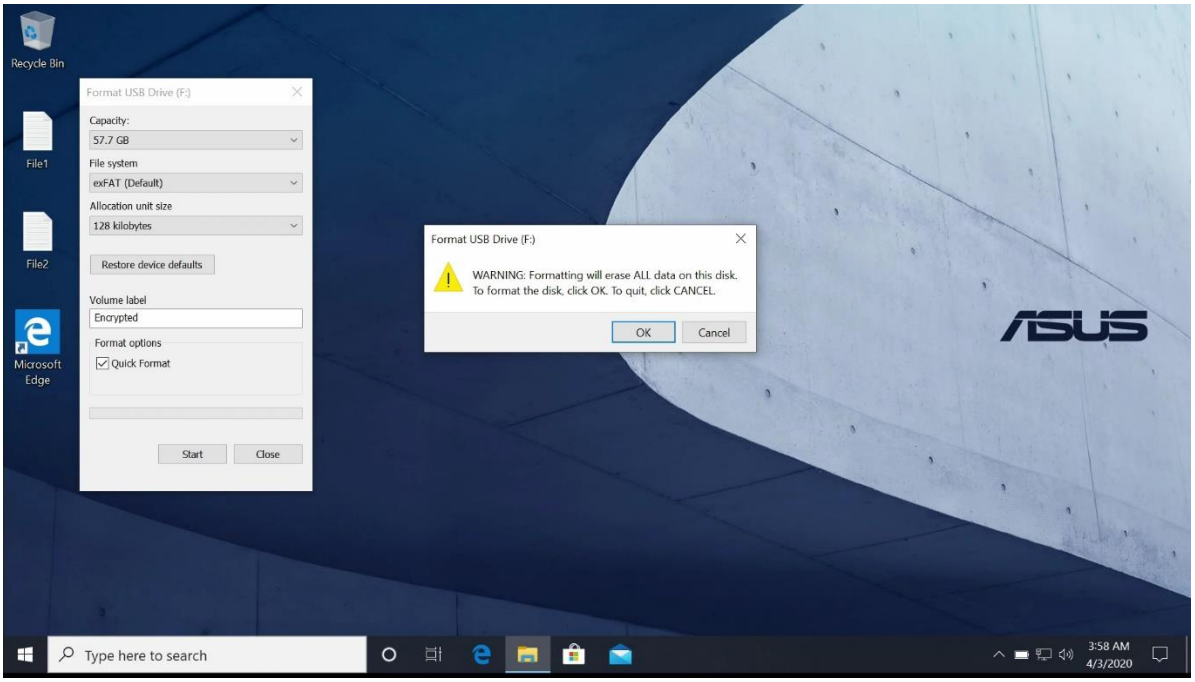
After entering the encryption password, USB Encryption function is turned ON.



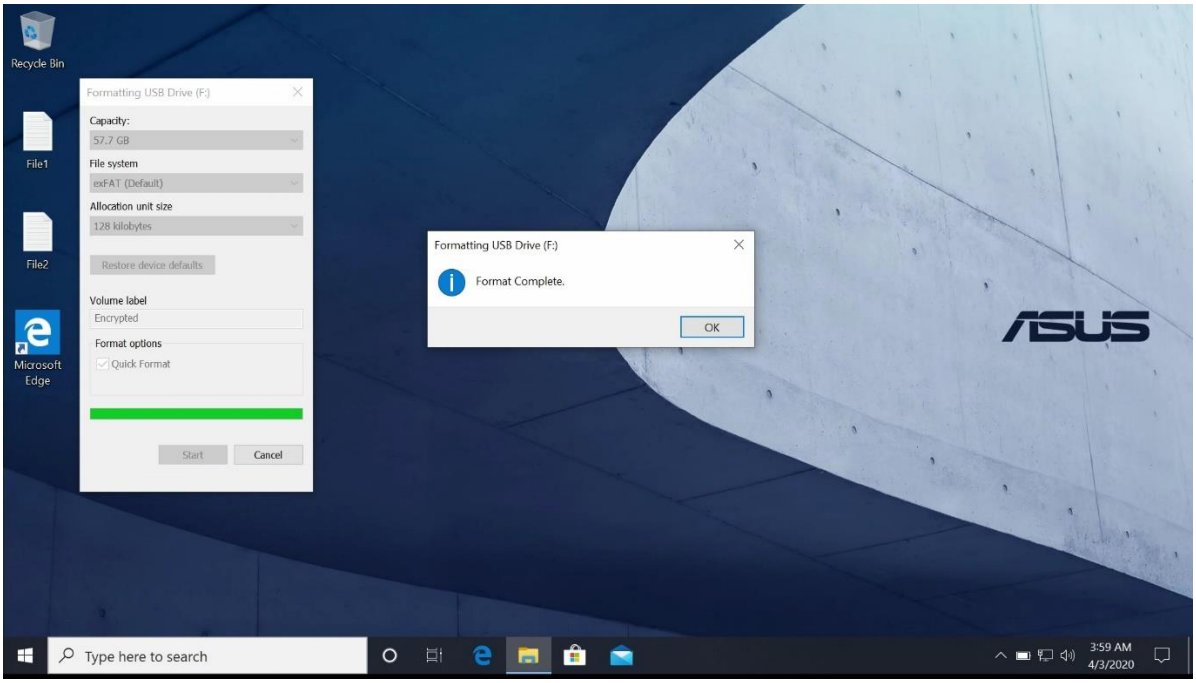
Ctrl-Alt-B takes you back to Windows. Once you plug in an USB thumb drive, Windows® will ask you to format this thumb drive. Please make sure to back-up the content on the drive first. Once Windows formats this thumb drive, all data will be lost.



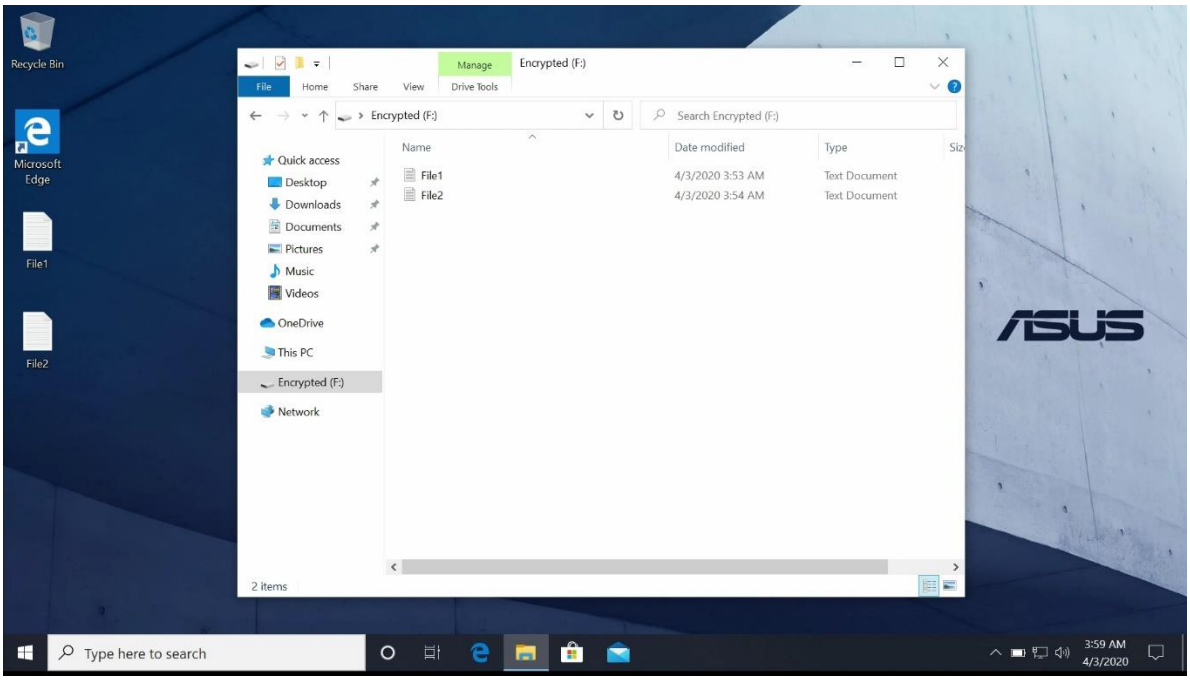

Recycle Bin
File1
File2
Microsoft Edge
Format USB Drive (F:)
Capacity:
57.7 GB
File system
exFAT (Default)
Allocation unit size
128 kilobytes
Restore device defaults
Volume label
Encrypted
Format options
Quick Format
Start
Close
Type here to search
3:58 AM
4/3/2020


Recycle Bin
File1
File2
Microsoft Edge
Format USB Drive (F:)
Capacity:
57.7 GB
File system
exFAT (Default)
Allocation unit size
128 kilobytes
Restore device defaults
Volume label
Encrypted
Format options
Quick Format
Start
Close
Format USB Drive (F:)
WARNING: Formatting will erase ALL data on this disk.
To format the disk, click OK. To quit, click CANCEL.
OK
Cancel
Type here to search
3:58 AM
4/3/2020

Format complete.



User can use this USB thumb drive like a regular USB thumb drive.

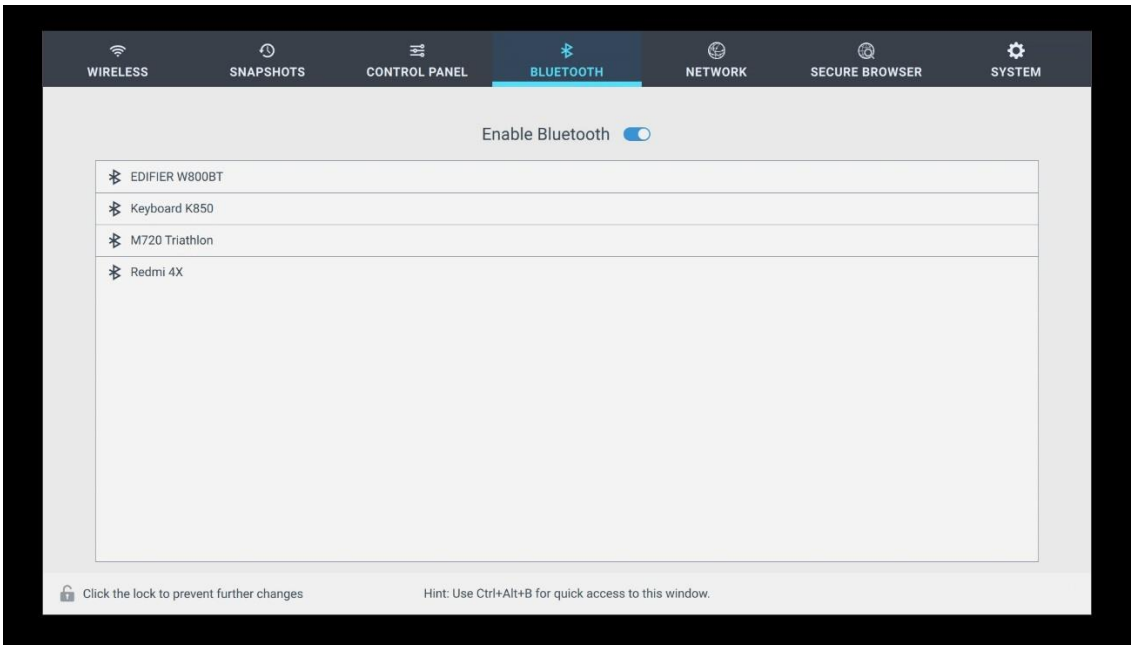


USB thumb drives cannot be read from other computers that do not have the same encryption key. In the event the USB thumb drive is lost, the data inside is still secure because the USB thumb drive is encrypted.

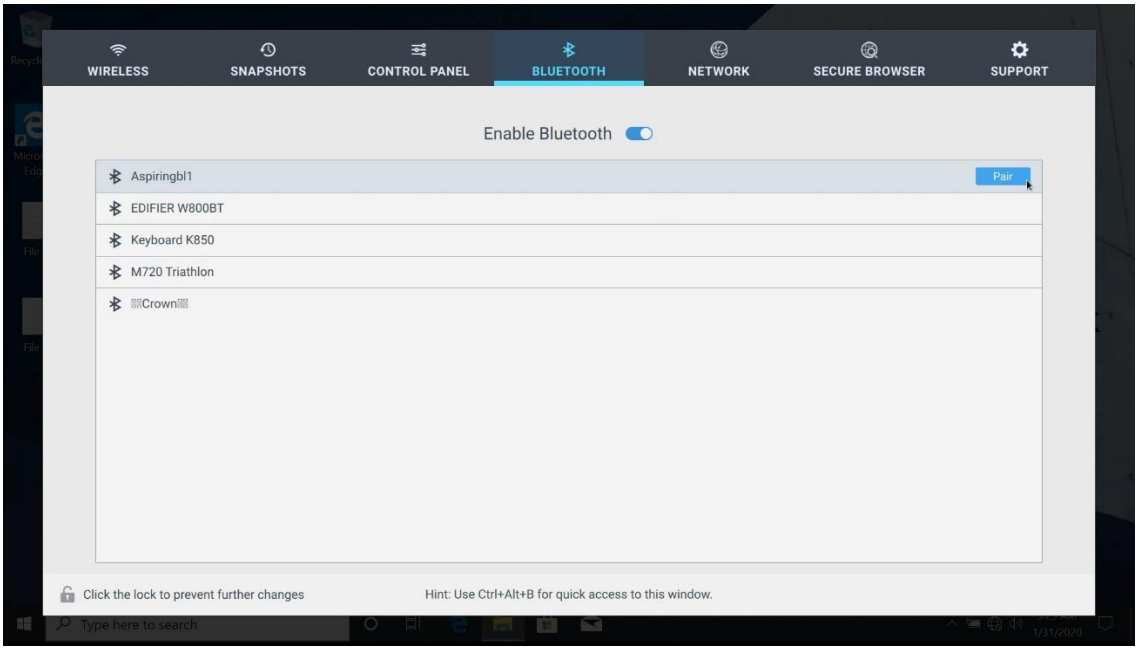
Only BIOS-SHIELD PC with the same USB encryption password can read this USB thumb drive.

Bluetooth Setup:

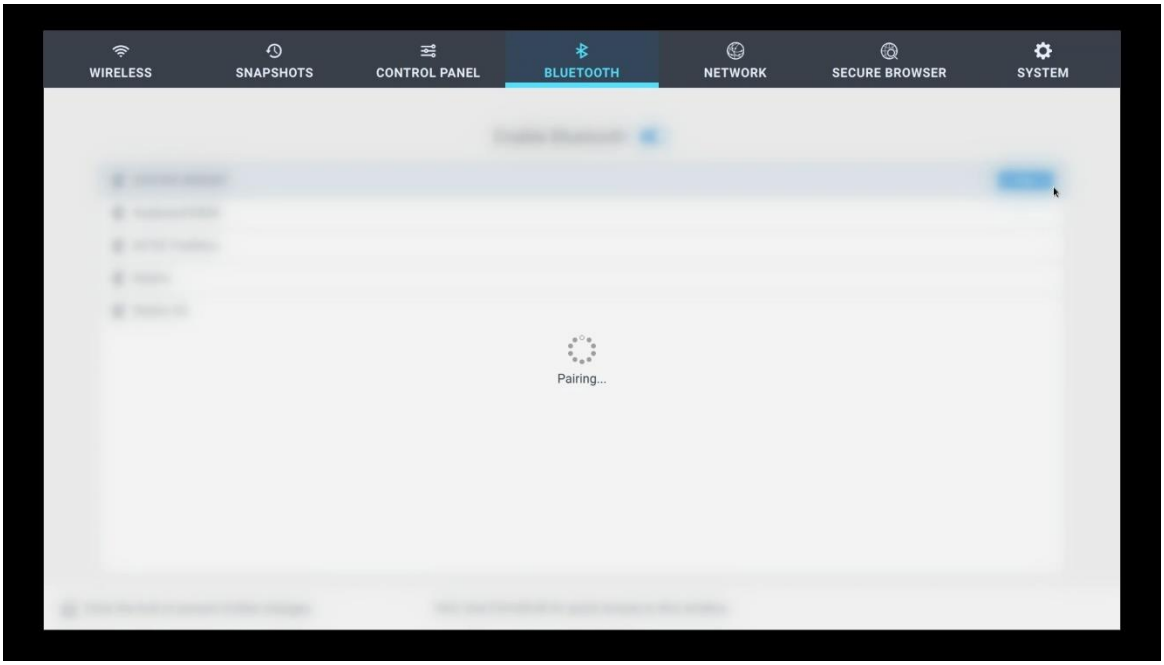
BIOS-SHIELD enables the PC to be configured and controlled through Bluetooth inside BIOS-SHIELD. To set this up, first put the Bluetooth devices in discovery mode (ready for pairing)

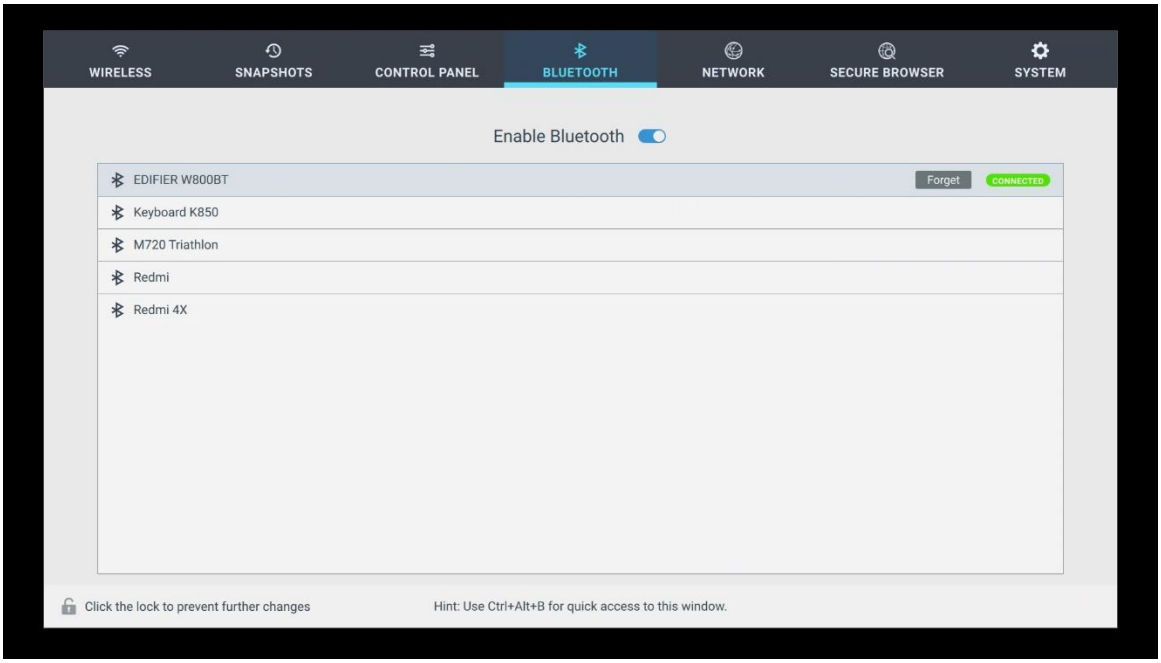


Select the Bluetooth device and click “Pair”

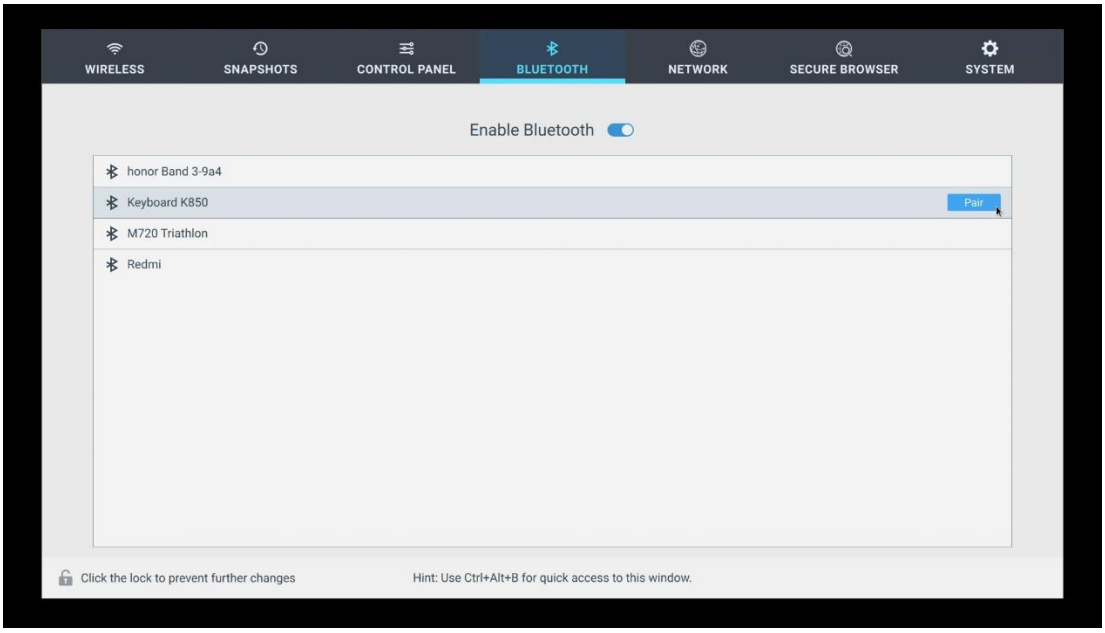


Once successfully paired, it will display “Connected”.



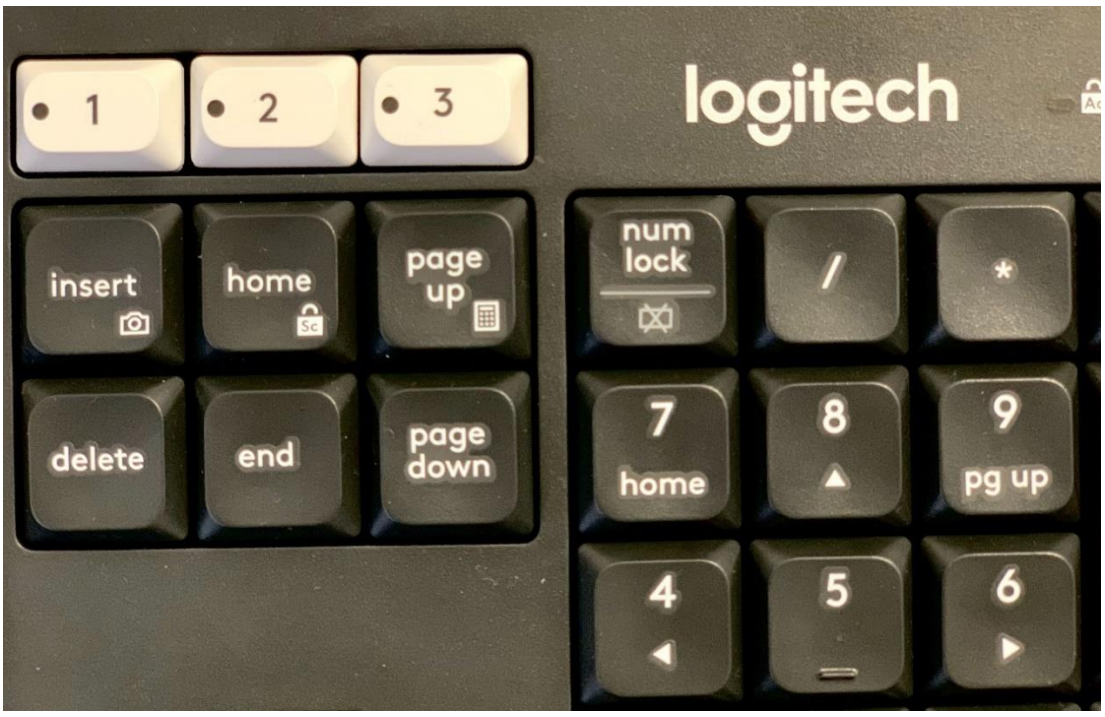


Next pair a Bluetooth keyboard

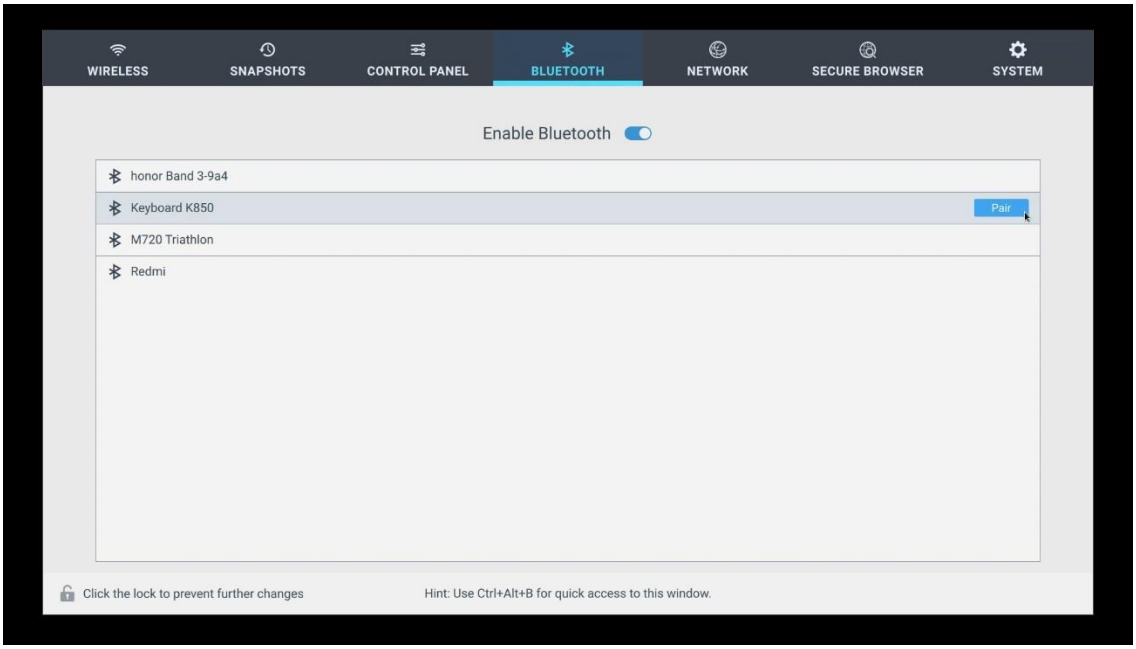


Example: Logitech Bluetooth keyboard

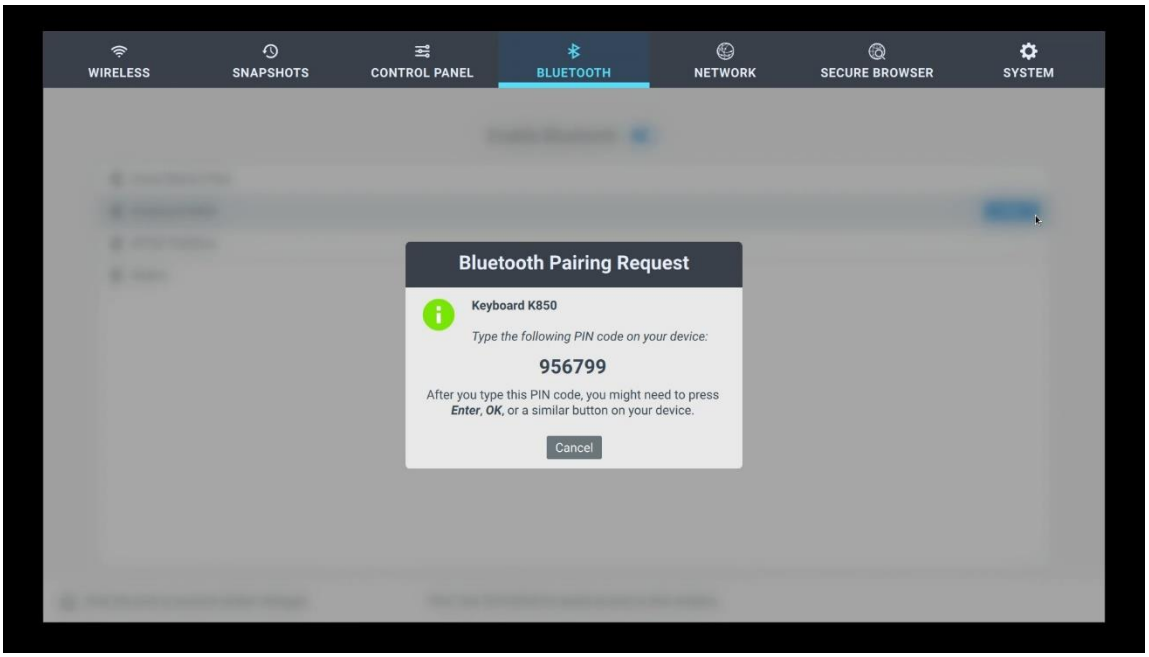
Press and hold key 1, LED will blink - ready to pair. (Please refer to your Bluetooth keyboard user's manual for instruction.)



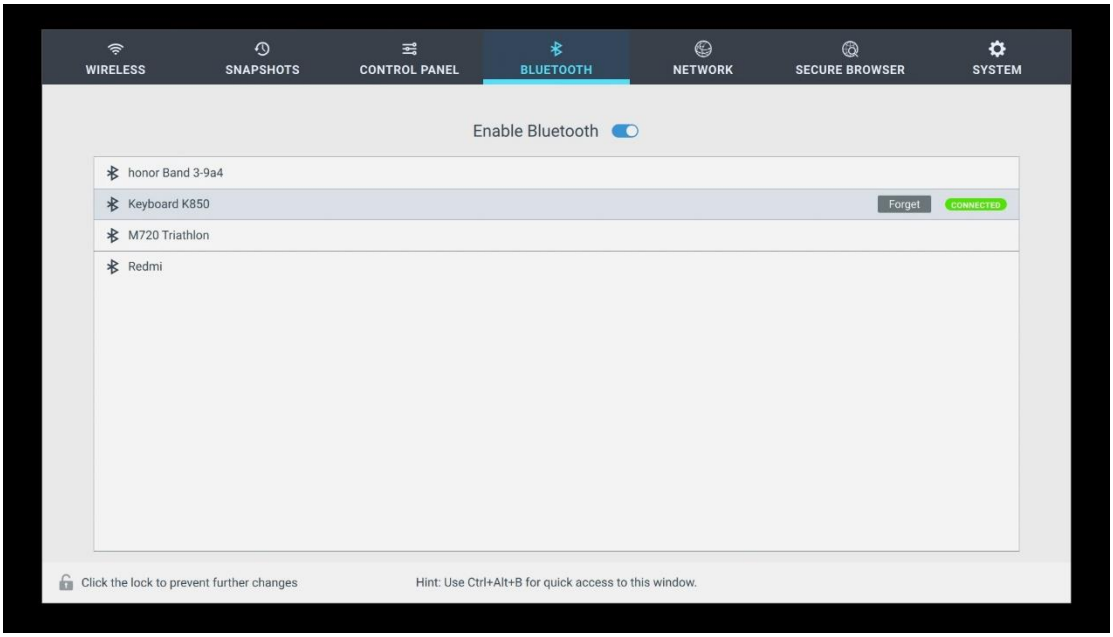
Click “Pair”



To pair a Bluetooth keyboard, BIOS-SHIELD will display a 6 number PIN code. Please enter this PIN code on your Bluetooth keyboard and press Enter.

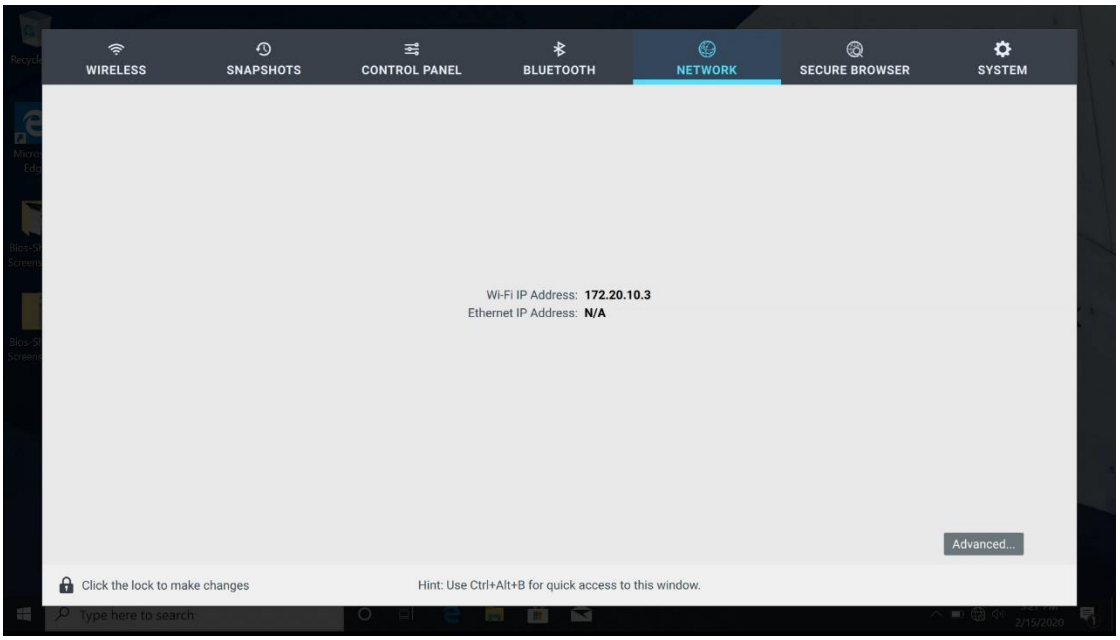


If a PIN code is correct, your Bluetooth keyboard will connect to the system.



Advanced Network:

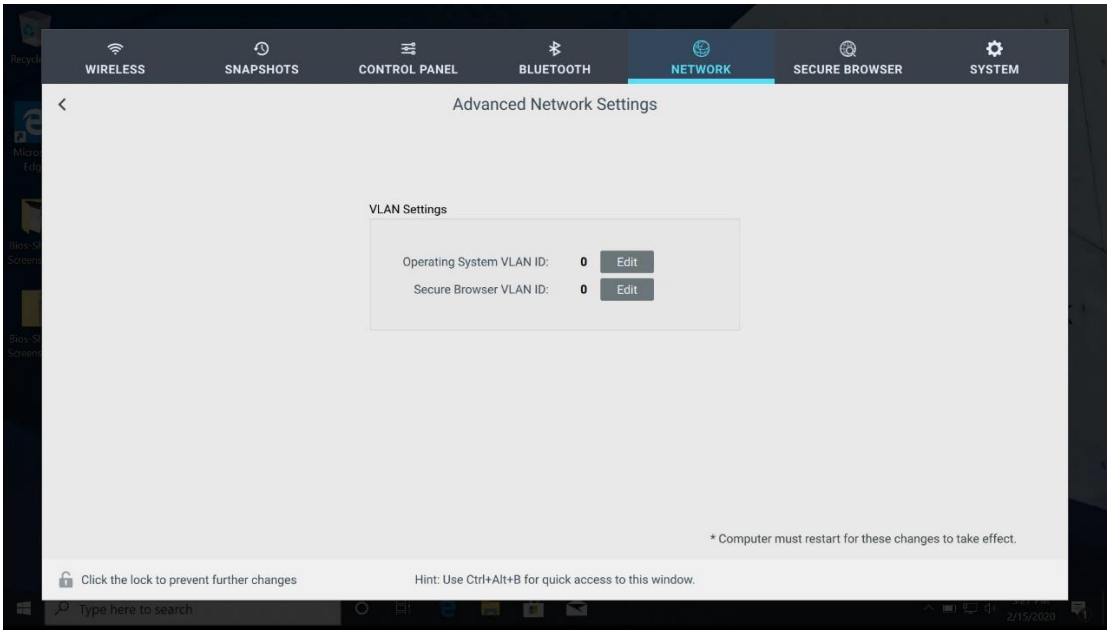
IP address is displayed on this page, if the laptop is connected to a network via wireless connection.



Click “Advanced”, this allow enterprise user to configure VLAN settings.

In order to use VLAN function, enterprise must have VLAN capable ethernet switch and configure VLAN properly. IT Administrator setup VLAN ID. BIOS-SHIELD can use different VLAN for Operating System (Windows®) and Secure Browser for maximum network security.

VLAN function applies to Ethernet. (not wireless)

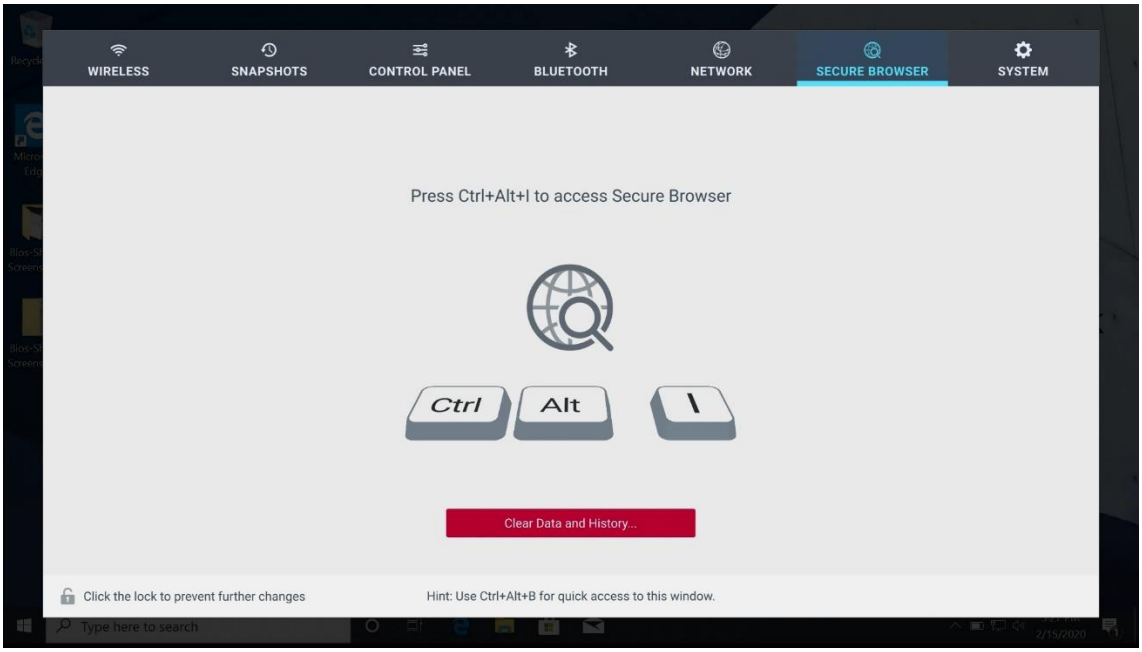


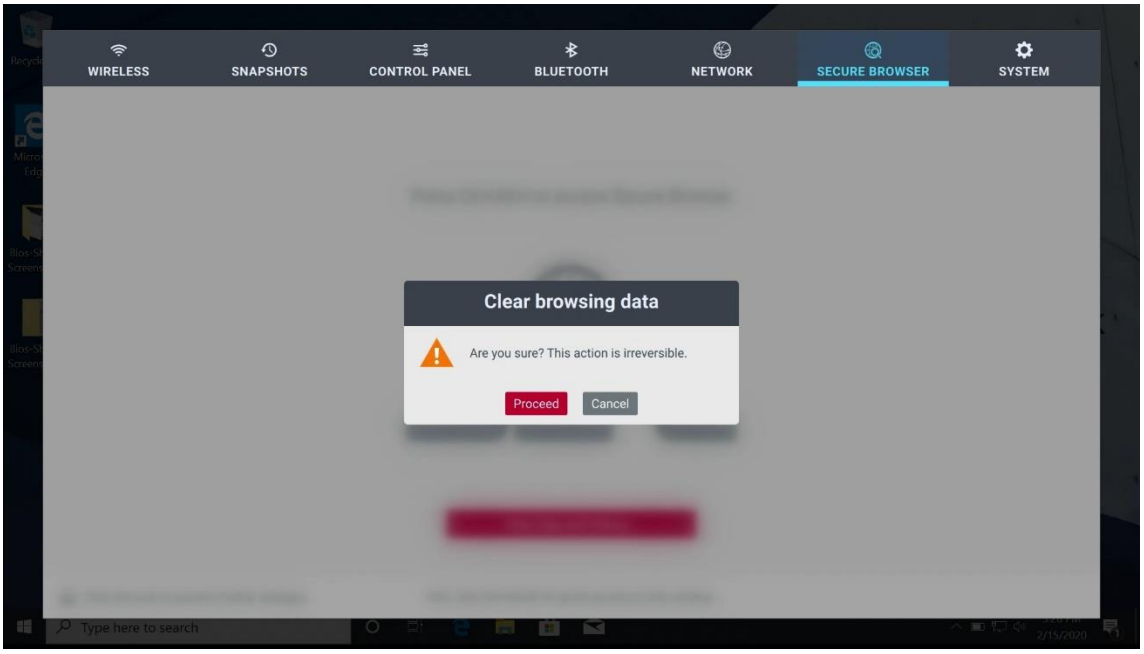
Secure Browser

BIOS-SHIELD has a built-in Secure Browser function. You can use the Secure Browser to browse Internet. If you browse a website that introduces malware, it will NOT affect your Windows®.

Secure Browser will start fresh in every boot.

Secure Browser allows the user to save bookmarks. To reset your Secure Browser history and bookmarks, please click "Click Data and History"

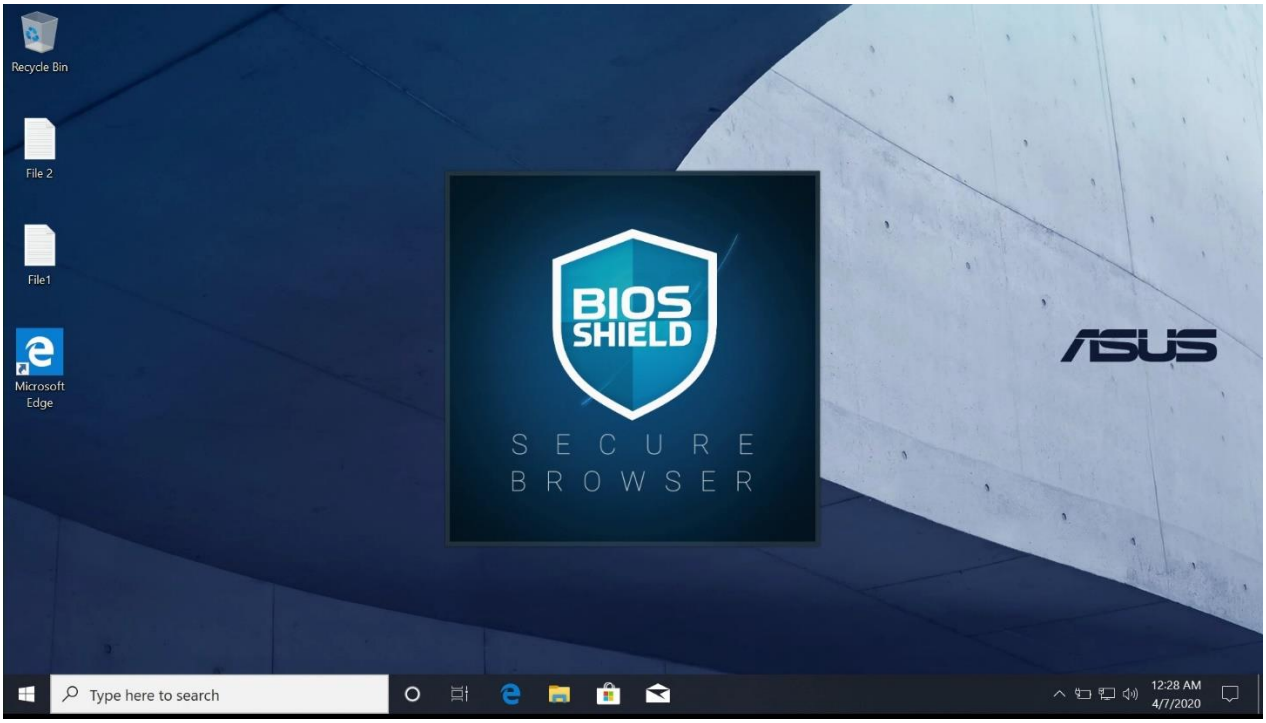




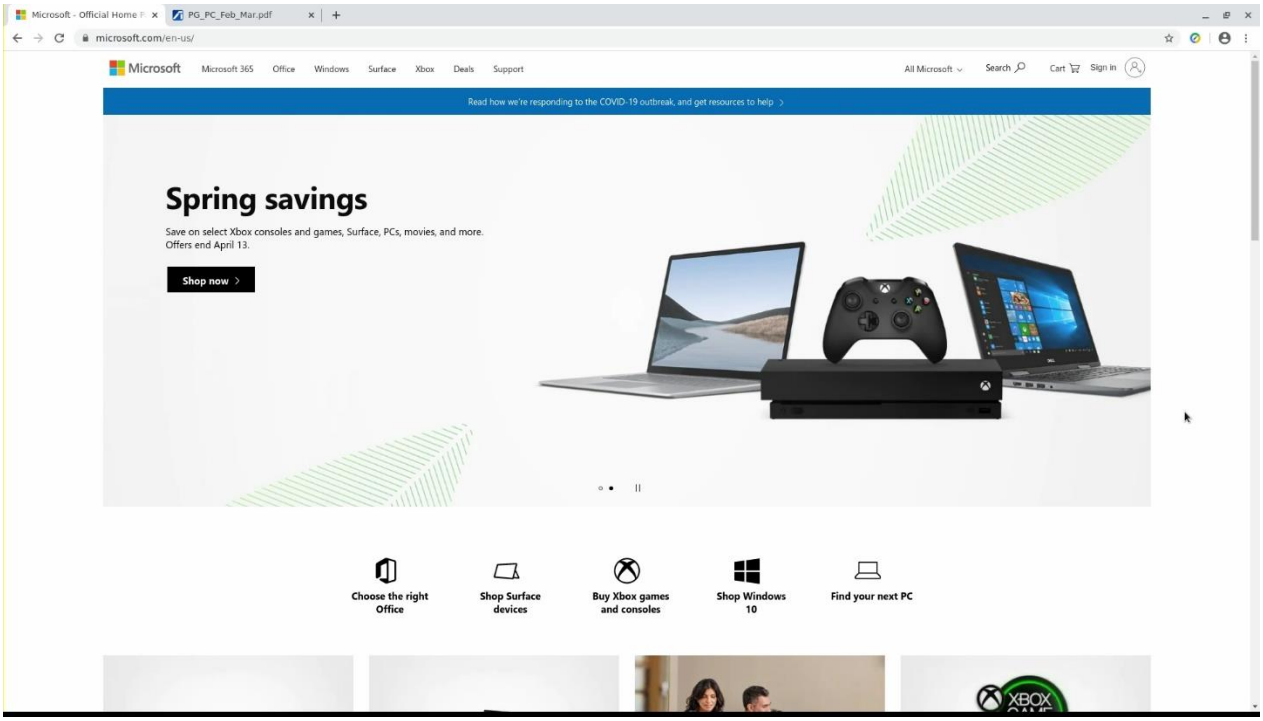
How to use Secure Browser

While Secure Browsers provide great security, user may still want to copy screenshots, photos or PDFs from the internet to Windows. The Secure Browser provide a protected channel to bring this information to Windows®.

Use Ctrl-Alt-I to launch Secure Browser



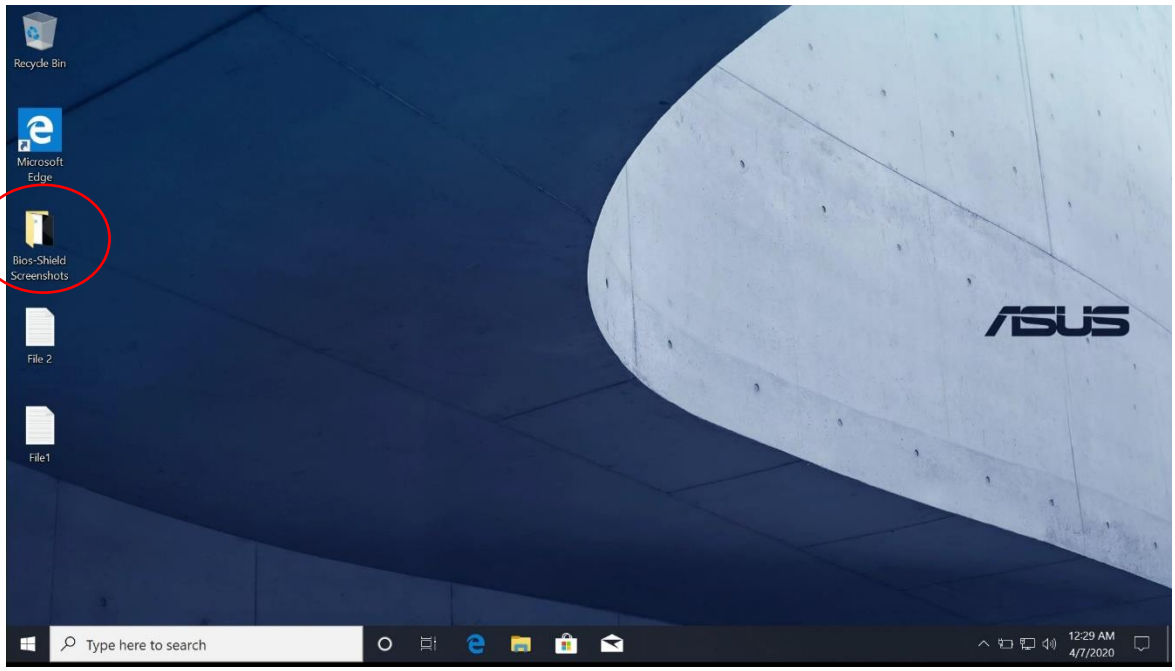
Browser internet www.microsoft.com website



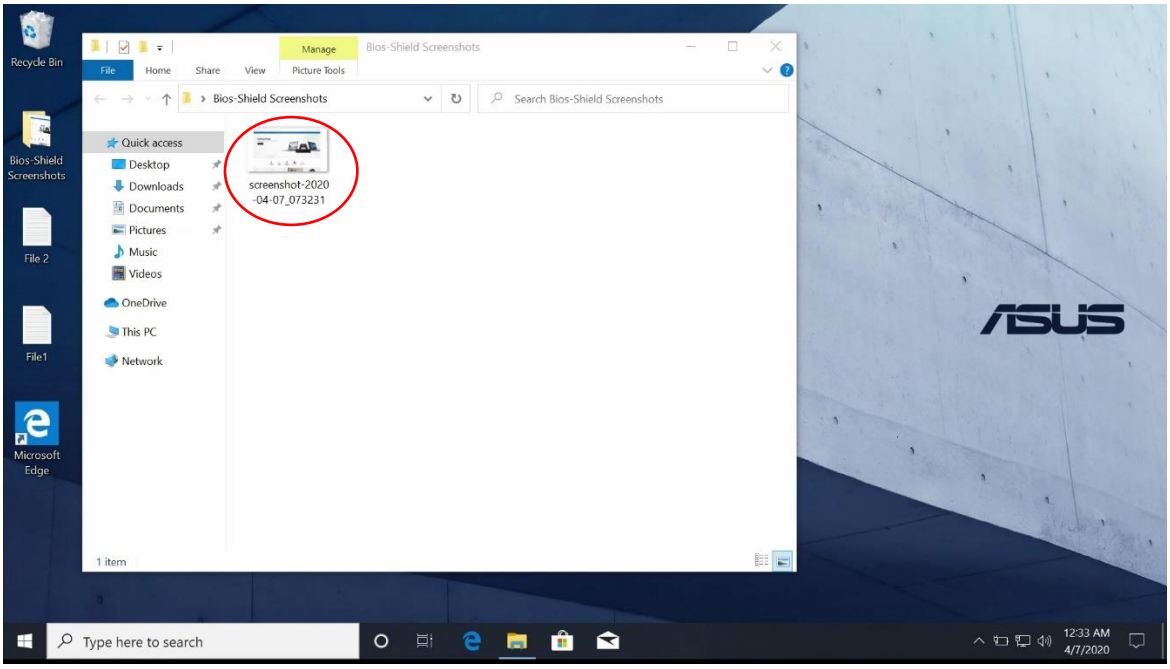
Screenshot in Secure Browser

If you want to do a screenshot from your Secure Browser to Windows®, use Ctrl-Alt-P to do screenshot in Secure Browser.

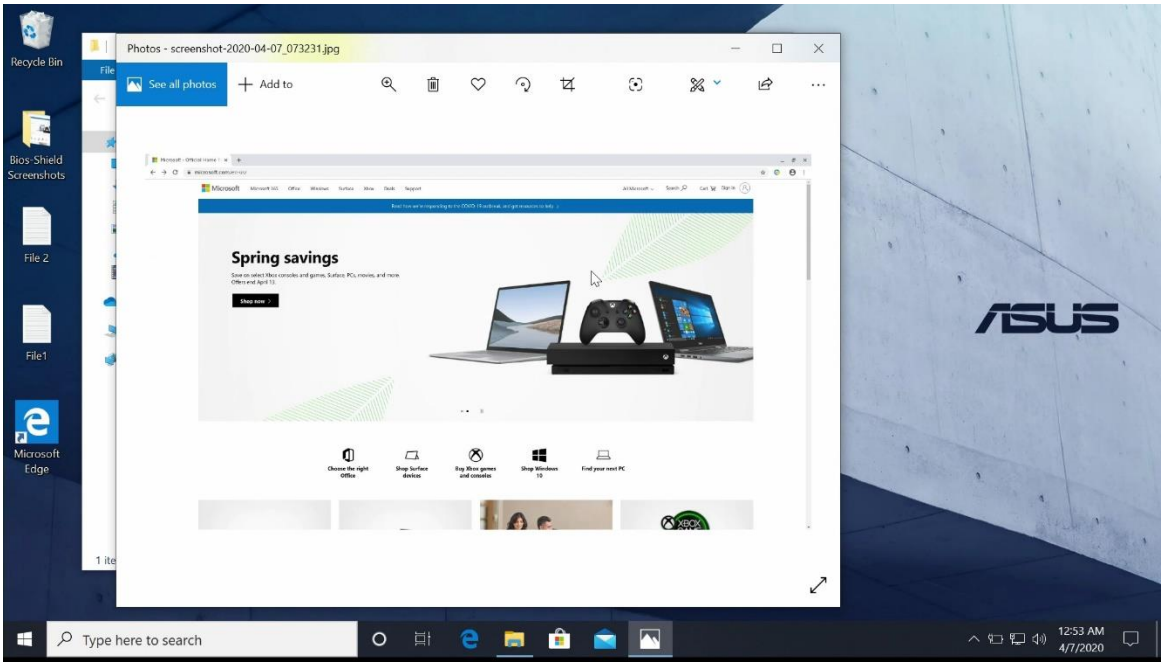
The screenshot will be sent to Windows® Desktop inside “Bios-Shield Screenshots” folder.



Open this folder

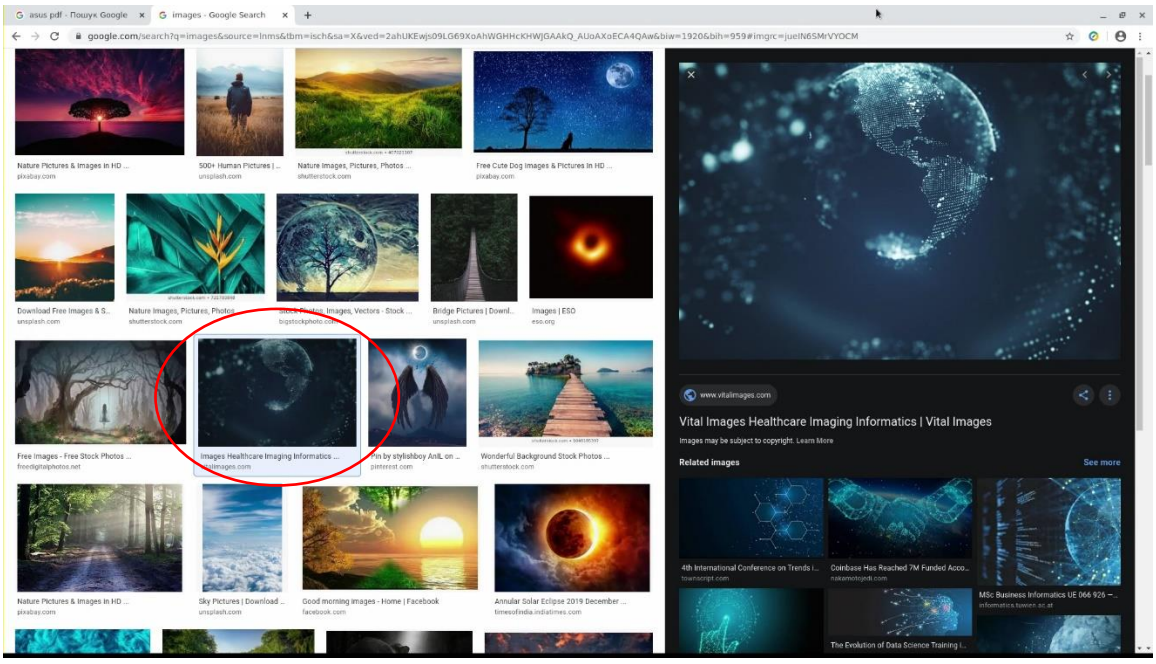


Open the screenshot file

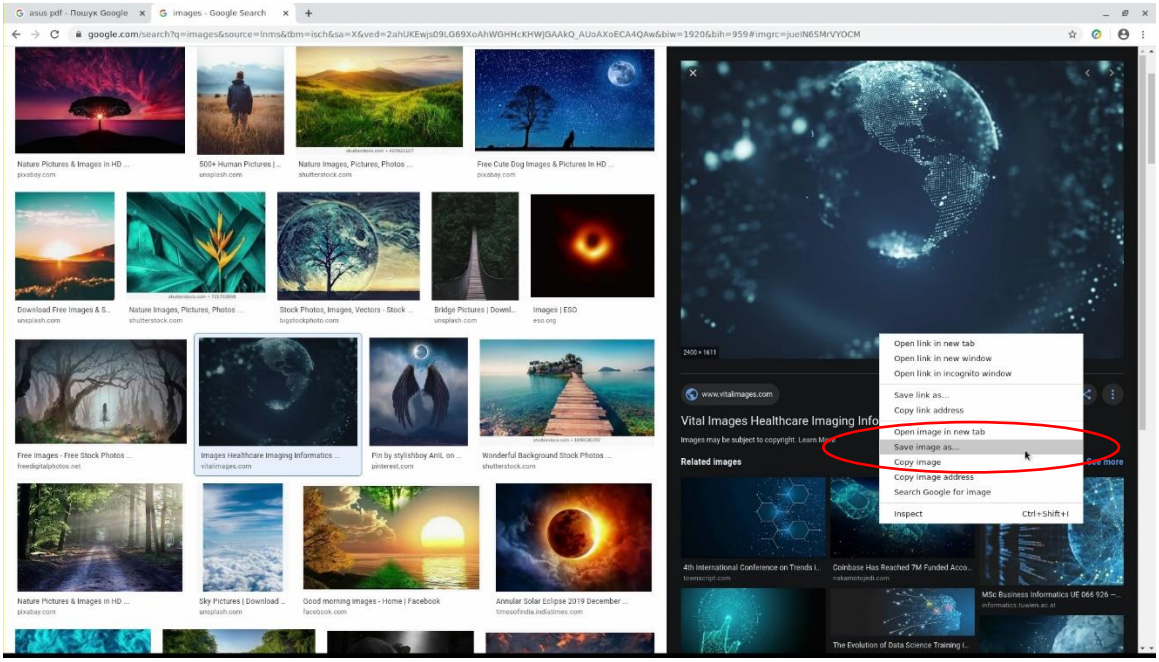


Transfer Photos from Secure Browser to Windows®

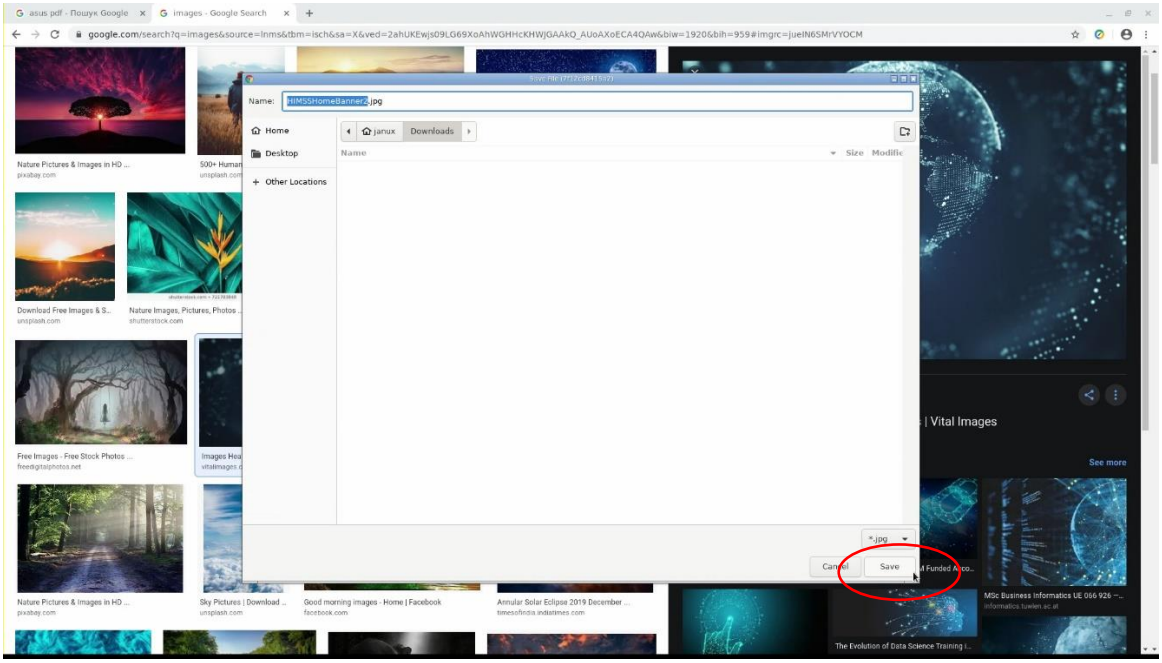
When browsing the internet in Secure Browser, you may find a photo you want to transfer to Windows®, select the photo and right click



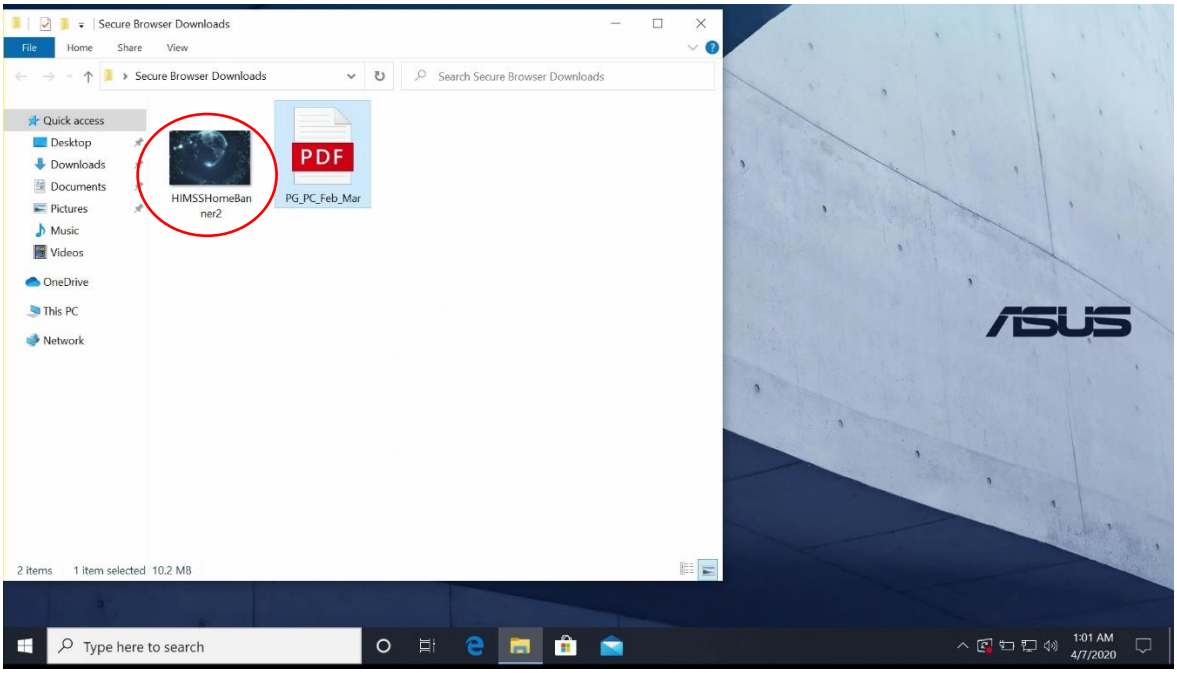
Save image as…

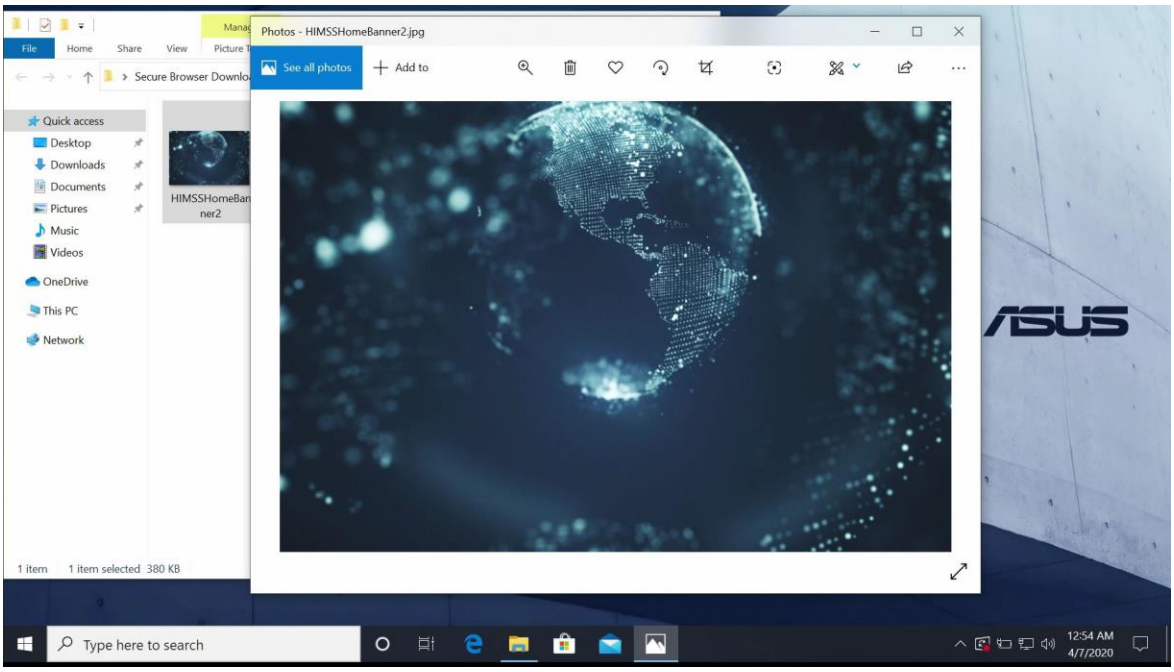


Click “Save” in lower right corner



Go to Windows® Desktop, click into “Secure Browser Downloads”

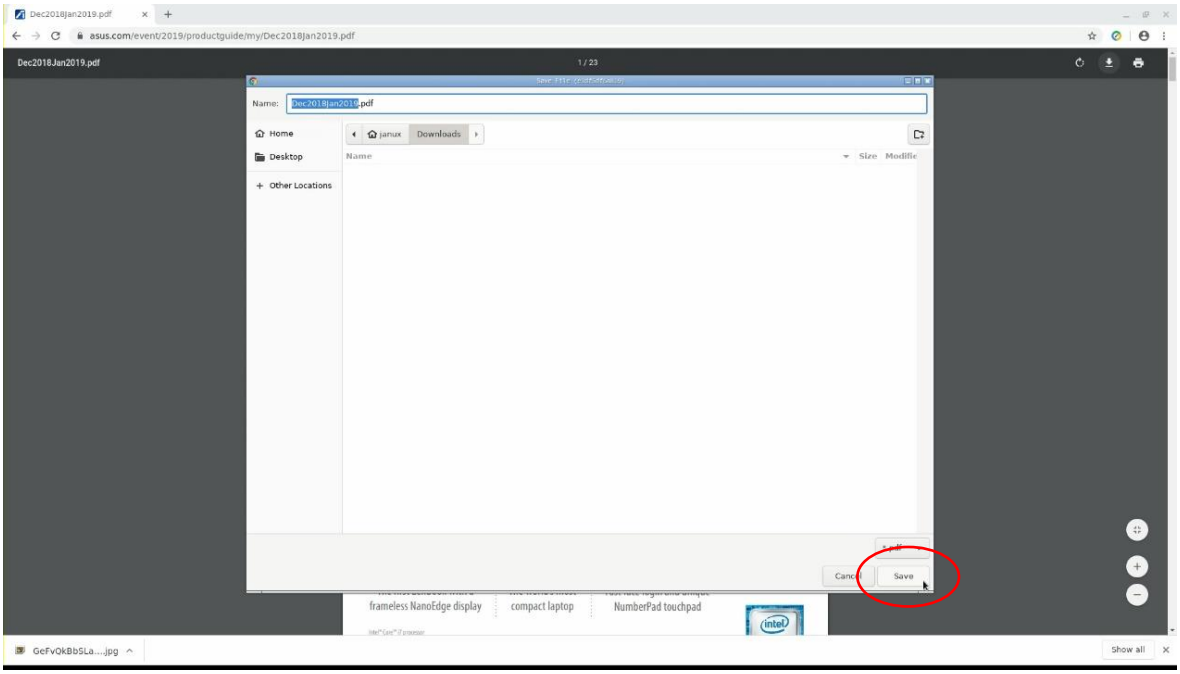




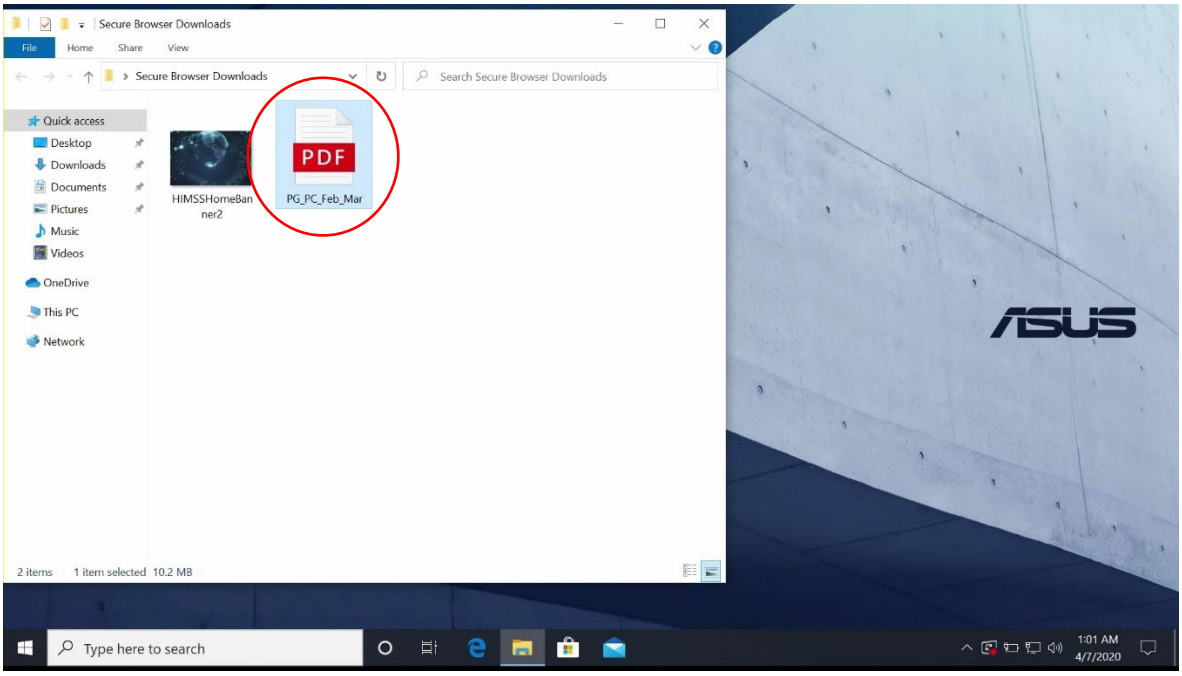
Transfer the PDF file from Secure Browser to Windows®

When browsing the internet, you may find a pdf file you want to transfer to Windows®, open the PDF file and click “Download”

Click “Save”



Go to Windows® Desktop, check “Secure Browser Downloads” folder, you will see PDF file transferred from Secure Browser to here.

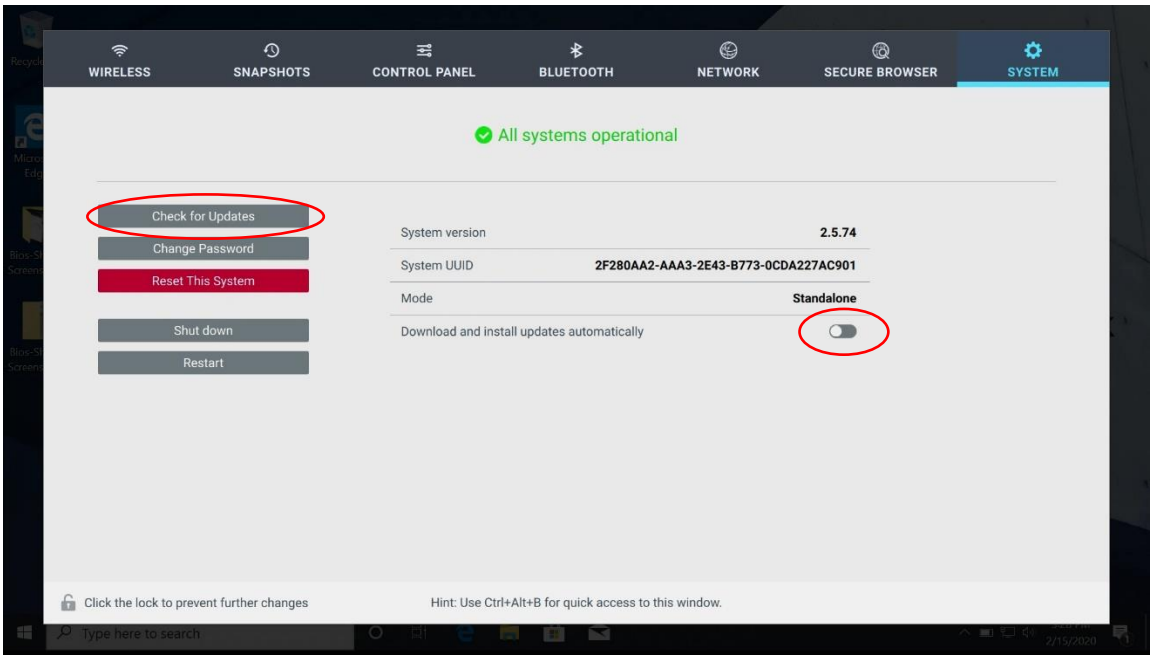


Open the PDF file

When using the Secure Browser to transfer photos or PDF files to Windows®, BIOS-SHIELD will filter these files and make sure there is no embedded malicious code inside when transferring to Windows®.

System Up-dates

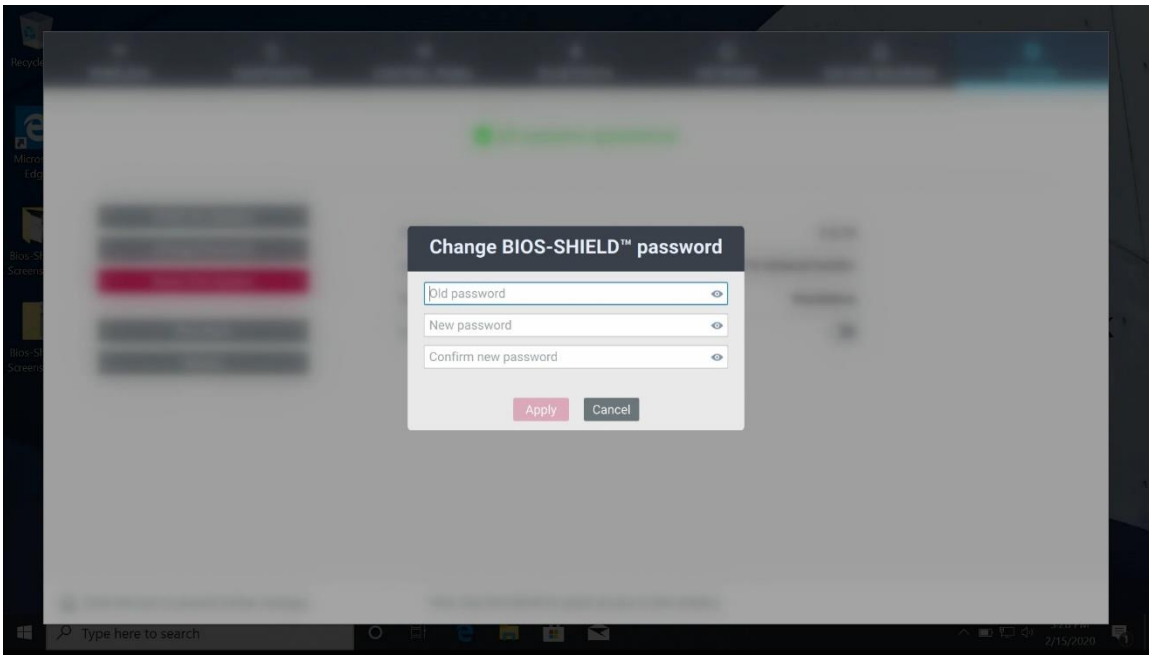
System status will display System version, UUID, Mode (Standalone mode or Cloud Management mode)



"Download and install updates automatically. If this feature is turned on, BIOS-SHIELD will check the internet. If there is a newer version of BIOS-SHIELD available, it will download and install it. In next re-boot, a new version of BIOS-SHIELD will be used.

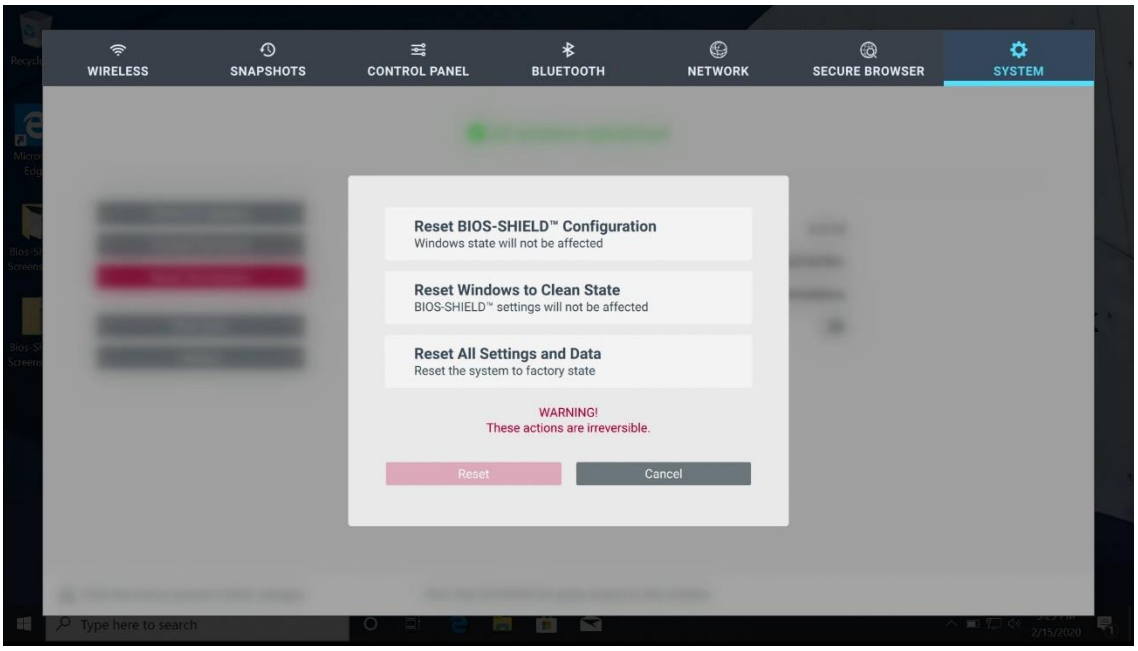
Check for Updates: Manually check for Updates

Change Password: Change BIOS-SHIELD Password



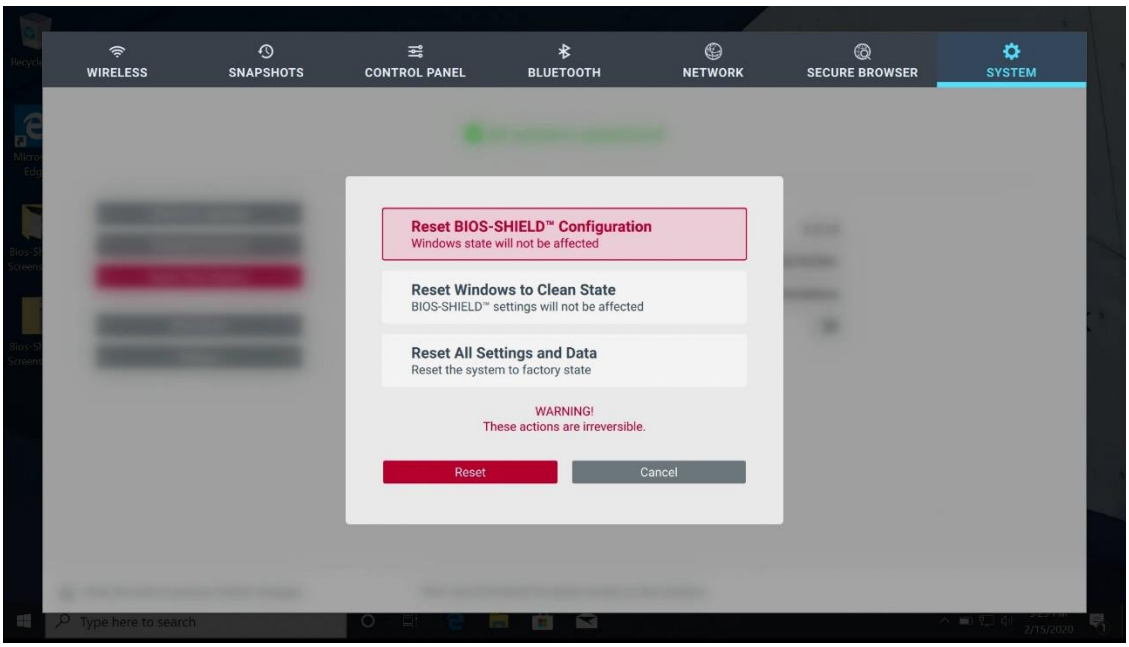
Reset This System

Enter BIOS-SHIELD password to unlock this.



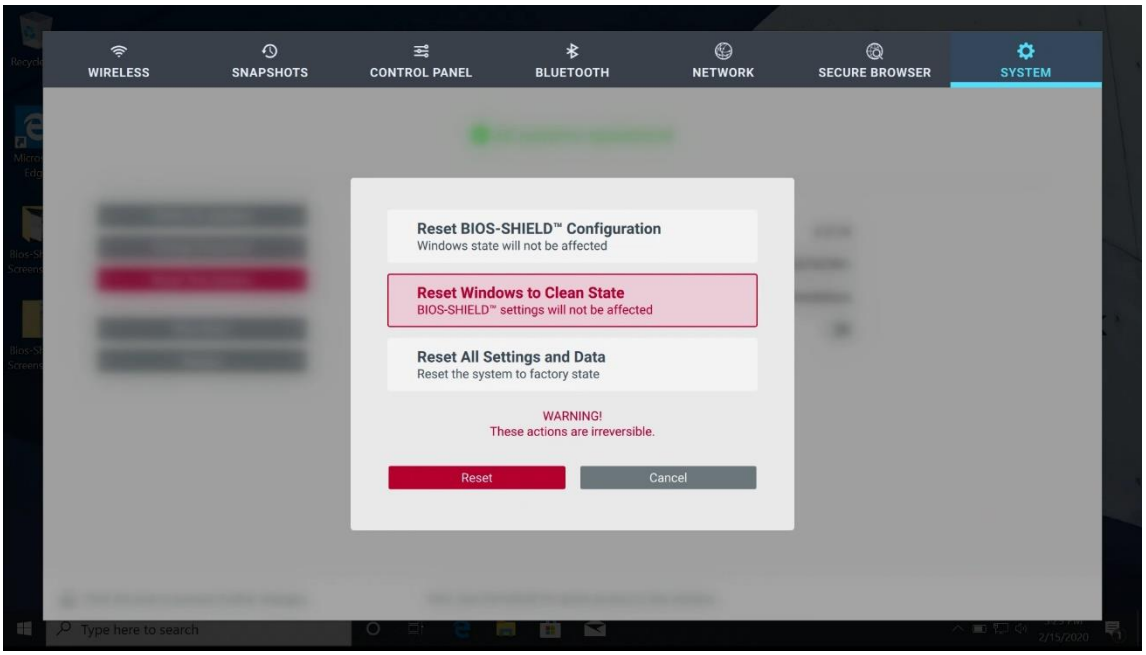
1. Reset BIOS-SHIELD configuration:

When you have a BIOS-SHIELD enabled PC in standalone mode and want to switch to Cloud Management mode, you can use this function. It will reset BIOS-SHIELD and allow it to connect to Cloud Management without resetting the end user data.



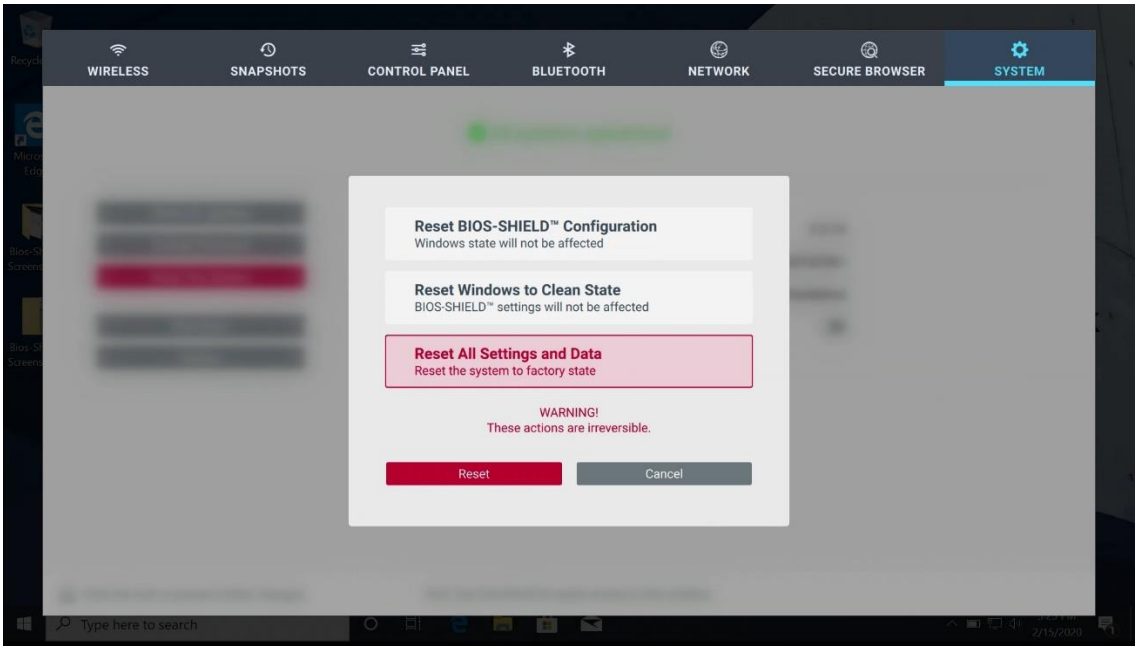
2. Reset Windows to Clean State:

BIOS-SHIELD can reset Windows to factory image. This will erase all end user data. BIOS-SHIELD settings such as password, control panel settings, wireless and Bluetooth settings will not be affected.



3. Reset All Settings and Data

BIOS-SHIELD will reset the system to factory default. It will erase all user data and BIOS-SHIELD settings.



Reboot: BIOS-SHIELD will shut down Windows and reboot PC

Shutdown: BIOS-SHIELD will shut down Windows and shutdown PC