This document is a Work-In-Progress and may contain errors, typo's, etc.. Please email shaun@copscorp.com.au with any corrections or to request any additions or changes

System Service

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Software

• Restart Windows

Force Restart Windows now to provide a clean environment befor proceeding shutdown -r -f -t 00

- System Restore
 - Check System Restore configuration

 Make sure System Restore is Enabled on C: and set the allocation to

 7%
 - Create a new System Restore point COPS - Pre System Service
- Task Manager
 - Disable unwanted startup items
- Wintoys
 - Install Wintoys
 winget install wintoys
 or
 winget install 9P8LTPGCBZXD
 or
 ms-windows-store://pdp/?ProductId=9P8LTPGCBZXD
 - Performance Tab
 - Ultimate performance power plan Turn ON if Desktop Turn OFF if Laptop
 - \bullet HAGS (hardware-accelerated GPU scheduling) $\mid \mathrm{Turn}\ \mathrm{ON}$
 - \bullet VBS (virtualization-base security) | Turn ON
 - Startup apps | Disable unwanted startup items
 - Search indexing | Turn ON
 - Delivery optimization | Turn ON
 - Network adapter onboard processor | Turn ON
 - Health Tab
 - \bullet Fast startup | Turn ON

- Drive optimization | Turn ON and run (click config icon and optimise each drive)
- Storage sense | Turn ON and run (click config icon and click 'Run Storage Sense now')
- Cleanup | Run 'Junk' + 'Microsoft Store' + 'DNS'
- System updates | Set to 'Default'
- App updates | Turn ON
- Graphics driver | Click 'Restart'
- Icons cache | Click 'Rebuild'
- Tweaks Tab
 - Desktop | Turn ON 'This PC' + 'Recycle Bin'

• Updates

- Update Windows old Windows 10 builds can use the Windows 10 Update Assistant to jump to the latest build
- Update Apps via Winget
- Update Apps via Microsoft Store
- Update Office Apps

"C:\Program Files\Common Files\microsoft shared\ClickToRun\OfficeC2RClient.exe"
/update user forceappshutdown=true

• Drivers

- Update Drivers using SDIO
- Verify Drivers using verifier

• System Maintenance/Repair

- Open a Terminal as Administrator Run wt or powershell or cmd
- Run the following commands:
 winget source reset --force
 winget source update
 winget upgrade --all --silent
 sfc /scannow
 dism /online /cleanup-image /startcomponentcleanup
 /resetbase
 dism /online /cleanup-image /restorehealth
 sfc /scannow
 defrag /c /o
- Disk Cleanup
 - Run cleanmgr /sageset:10

chkdsk c: /r /scan /perf

• Click Clean up system files

- Tick all checkboxes EXCEPT: System error memory dump files System error minidump files Windows error reports and feedback diagnostics User file history
- Click OK
- Run cleanmgr /sagerun:10
- Memory Diagnostics
 - Run Windows Memory Diagnostics
 - Click 'Restart now and check for problems (recommended)'
 - After Windows boots back up, check results: Event Viewer Windows Logs System Filter Current Log... Event sources Tick 'MemoryDiagnostics-Results' Click OK
- Create a new System Restore point COPS Post System Service

Hardware

- Check all buttons and ports are free from debris and working functioning correctly
- Air compress out system as required
- Wipe down device and clean surfaces
- Add a Serviced by COPS sticker or replace old worn stickers as required

Data Transfer

${f Windows}$	

Backup

Windows

- Restart Windows
 Force Restart Windows now to provide a clean environment befor proceeding
 shutdown -r -f -t 00
- [OPTIONAL] Create a new System Restore point

Antivirus

• Disable the Antivirus

Some of our extraction tools prompt false positives in the majority of security software

Transfer Drive

• Create a Job folder on the Transfer Drive naming convention: Job#5000

• Create a new folder with the current job number to save User Data to

User Profiles

• Copy C:\Users\ folder to the Job folder on the Transfer Drive

Web Browsers For each installed web browser complete the following:

• Export Bookmarks

naming convention:

```
Web Browser - Google Chrome - Bookmarks - 2024-07-15.html
```

web-browser_google-chrome_bookmarks_2024-07-15.html

- Google Chrome URL: chrome://bookmarks
- Microsoft Edge URL: edge://favorites
- AVG Secure Browser URL: secure://bookmarks
- Mozilla Firefox Hotkey: Ctrl+Shift+0
- Microsoft Internet Explorer: %USERPROFILE%\Favorites

• Export Passwords

naming convention:

```
Web Browser - Google Chrome - Passwords - 2024-07-15.csv
```

web-browser_google-chrome_passwords-2024-07-15.csv

- Google Chrome URL: chrome://password-manager or chrome://settings/passwords (older Chrome versions)
- Microsoft Edge URL: edge://wallet/passwords or edge://settings/passwords (older Edge versions)
- AVG Secure Browser URL: secure://password-manager or secure://settings/passwords (older Secure Browser versions)
- Mozilla Firefox URL: about:logins
- Microsoft Internet Explorer: use Nirsoft IE PassView

• Sync Accounts

Try to sync each browser with their relevant accounts if available
Manual exports of Bookmarks + Passwords is good, but syncing the entire
browser is better

- Google Chrome: Google Account
 - chrome://sync-internals

- Check Enabled: Sync Feature Enabled = true
- Check Account: Username
- Checked Synced: Last Synced = Just now
- Check Not Actively Syncing: Sync Cycle Ongoing = false
- Force Sync (if required): chrome://extensions enable Developer mode click Update
- Microsoft Edge: Microsoft Account
 - edge://sync-internals
 - Check Enabled: Sync Feature Enabled = true
 - Check Account: Username
 - Checked Synced: Last Synced = Just now
 - Check Not Actively Syncing: Sync Cycle Ongoing = false
 - Force Sync (if required): edge://extensions enable Developer mode click Update
- AVG Secure Browser: AVG Account
- Mozilla Firefox: Mozilla Account

Programs

• Export Installed Programs List

naming convention:

Installed Programs - Nirsoft Uninstallview - 2024-07-15.html or

installed-programs_nirsoft-uninstallview_2024-07-15.html

- Use Nirsoft UninstallView, save all as Horizontal HTML
- Export Winget

naming convention:

Winget - Export - 2024-07-15.json

winget_export_2024-07-15.json

- Open a Terminal as Administrator Run wt or powershell or cmd
- Check Winget is installed winget -v (this will throw an error if winget is unavailable)

- Update Winget winget source update
- Export Winget's list of installed programs winget export -o "REPLACE-WITH-TARGET-FILE" (update REPLACE-WITH-TARGET-FILE with the target winget

(update REPLACE-WITH-TARGET-FILE with the target wing export file on the transfer drive)

 Optionally export a list of all programs that Winget does cannot re-install at the same time with this extended command winget export -o "REPLACE-WITH-TARGET-FILE" >-"winget_unnavailable.txt"

Licenses naming convention:

License Keys - Nirsoft Product Key Scanner - 2024-07-15.html or

 $\label{license-keys_nirsoft-product-key-scanner_2024-07-15.html-} use~Nirsoft~Product~Key~Scanner~or~Nirsoft~ProduKey,~save~all~as~Horizontal~HTML$

Emails / Calendars / Contacts

- Extract Passwords and Server Settings
 - Nirsoft Mail PassView
 - Nirsoft WinMailPassRec
 - Nirsoft PstPassword
- Backup any accounts set up as POP
 - How to export emails to file in Outlook
- Export Calendars
- Export Contacts

Drivers TRANSFERDRIVE:\\Job#5000\Drivers - 2024-07-15\

OI

 $\label{thm:condition} TRANSFERDRIVER: $$\ an Administrator and run the following script:$

Export-WindowsDriver -Online -Destination "REPLACE-WITH-TARGET-FOLDER"

 $(update\ REPLACE\text{-}WITH\text{-}TARGET\text{-}FOLDER\ with\ the\ target\ drivers\ folder\ on\ the\ transfer\ drive)$

Other

- Check C: Drive for unusual files/folders
 - copy to Job folder copying the C: Drive file structure (Transfer-Drive:\Job#5000\C\FolderToSave)
- [OPTIONAL] Create Winget Install Script
 - https://winstall.app/ Select Desired Programs Generate Script Download both Batch (.bat) and PowerShell (.ps1) scripts

Prepare New Device (if required)

- Create a Local Account during Windows 10/11 Out of Box Experience (OOBE)
 - Option 1: No Internet Connected

Bypass Network Registration

- Open Command Prompt: Shift+F10 (may require pressing Fn on some devices)
- Run command: OOBE\BYPASSNRO (this will restart the OOBE if successful)
- Proceed through OOBE like normal until you get to the Network Selection screen
- Select I don't have an internet connection (if this button is not available the bypass didn't work, proceed to Option 2)
- ullet Select Continue with limited setup
- Create a Local Account: COPS (no password)
- Complete the OOBE as normal
- Option 2: Internet Connected

Force Local Account Creation

- Proceed though OOBE like normal until you get to the Login with a Microsoft Account screen
- Open Command Prompt: Shift+F10 (may require pressing Fn on some devices)
- Run command: start ms-cxh:localonly
- Create a Local Account: COPS (no password)
- Complete the OOBE as normal
- Note regarding Windows 10/11 S Mode

In some cases you won't be able to open the Command Prompt, you may only see it's black box flash up on the screen and quickly dissapear. This is could be a indication of the Windows 10/11 install being in S Mode (Store Mode), which disables access to terminals (i.e. Command Prompt) and execution of non Microsoft Store apps. If you encounter this, you will not be able create a Local Account during the OOBE, and you will need to complete the OOBE with the customer's Microsoft Account. After the OOBE is complete and you've reached the Windows Desktop environment, you may need to Switch Out of S Mode to proceed with the Data Transfer, as S Mode

restricts us from running our tools if required.

- [OPTIONAL] Switch Out of S Mode WARNING: SWITCHING OUT OF S MODE IS A PER-MANANT CHANGE AND CANNOT BE REVERTED
 - Connect to the internet
 - ullet Run ms-windows-store://pdp/?productid=BF712690PMLF&OCID=windowssmodesupportp
 - Follow the prompts to Switch Out of S Mode (this will change the Windows edition installed to Windows 10/11 Home or Pro as per it's installed license)
- Configure System Restore
- Check installed Windows' Edition
 - Run winver
- Create a new System Restore point

COPS - Fresh Windows 10/11 Home/Pro Install (use 10 or 11 and Home or Pro as per winver)

- Connect to the Internet (if not already)
- Check Windows is activated

 $\label{todo:ms-settings:activation} TODO: \verb|ms-settings:activation| activation Source = SMC-Article-12440 \\$

- Configure Time/Date
- Configure Windows Update
 - Open Windows Update Run control update
 - Click Resume updates if updates are currently paused
 - Disable Get the latest updates as soon as they're available
 - Advanced options
 - \bullet $\operatorname{Enable}\nolimits$ Receive update for other Microsoft products
 - Disable Get me up to date
 - Enable Notify me when a restart is required to finish updating
 - Delivery Optimization
 - Enable Allow downloads from other devices
 - Select Devices on my local network
- Update Microsoft Store Apps
 - Open Microsoft Store

Run ms-windows-store:

- Click Downloads
- Click Check for updates
- Click Update all
- Update Winget Apps

- Open a Terminal
 Run wt or powershell or cmd
- Run the following commands:
 winget source update
 winget upgrade --all --silent
- Update Windows control update
- Update Office apps
 - Run "C:\Program Files\Common Files\microsoft shared\ClickToRun\OfficeC2RClient.exe' /update user forceappshutdown=true

• Check Drivers

Bangs(!) exclamation marks in Device Manager indicates missing, incorrect, or corrupt drivers

- Open Device Manager to check for Bangs(!)
- Run Snappy Driver Installer Origin (SDIO) as an Administrator
- Select TODO: Create a new system restore point
- Select all missing/incorrect/corrupt drivers (as per bangs! in Device Manager)
- Click Install
- [OPTIONAL] Update Outdated Drivers
- Verify Drivers
 - Turn On Windows Verifier:
 - Run verifier
 - Select Create standard settings
 - Click Next
 - Select Automatically select all drivers on this computer
 - Click Finish
 - Restart Windows shutdown -r -f -t 00
 - Windows Verifier works by stressing out drivers as they're loaded (it is expected that the computer's performance will be impacted while verifier is enabled)
 - If Windows loads into the desktop OK and does not crash with Verifier enabled, then all is good and you can proceed to turn it off
 - If Verifier induces a crash, Windows should produce a Blue Screen of Death (BSOD) with a STOP Code error and information on the driver that crashed, you can use this information to identify the faulty driver that caused the crash and replace it
 - Turn Off Windows Verifier:

- Run verifier
- Select Delete existing settings
- Click Finish
- Restart Windows shutdown -r -f -t 00

Restore

• Install Programs

• you can use the winget install script for this if you made one - install programs before restoring the user profile, as otherwise some required registry entries may not exist yet

• Restore User Profiles

- make Administrator, make default user, set no password and set password does NOT expire
- Copy over any C: Drive files/folders that were backed up
- Restart Windows (this should log in to the restored user profile)
 - open a command prompt window (or similar) as Administrator to ensure account has admin priviledges

• Install Printer Drivers

- If you can not install the printer drivers + software without the printer present, save the printer package installer to C:\COPS\ and create a shortcut to it on the customer's desktop
- Check Web Browsers and restore Bookmarks and Passwords from backups as required
- Activate software using extracted keys or accounts as required
- Configure email accounts as required
- Install additional drivers as required
- Move any USB Dongles from the old device (Wireless mice, wifi, blue adapters, etc...)
- Update Apps

via Microsoft Store

via Winget

- Update Windows
- Update Office apps (if installed)
- Restart Windows
- Remove 'COPS' user account
 - Run netplwiz Select COPS Click Remove
 - Delete C:\Users\COPS\ folder

Windows may prevent you from removing this folder if it's currently accessing it in the background, if this happens just restart Windows and try to remove it again

- Empty Recycle Bin
- System Maintenance/Repair
 - Open a Terminal as Administrator Run wt or powershell or cmd

• Run the following commands:

```
winget source reset --force
winget source update
winget upgrade --all --silent
sfc /scannow
dism /online /cleanup-image /startcomponentcleanup
/resetbase
dism /online /cleanup-image /restorehealth
sfc /scannow
defrag /c /o
chkdsk c: /r /scan /perf
```

Useful Tip

You can queue up multiple commands in PowerShell by pressing Shift+Enter to add a new line before pressing Enter to execute the all of the queued up commands one after another

- Restart Windows
- Create a new System Restore point COPS Completed Data Transfer

Virus/Malware Removal

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Pre Scans

• [IMPORTANT] Air Gap Device

Ensure device is disconnected from all networks before RKill is run successfully and RATs (Remote Access Tools) removed, to ensure malicious actors do not re-connect to the device while it's still compromised

- Enable System Restore (set to 7% allocation if enough free disk space)
- [OPTIONAL] Create a new System Restore point COPS Pre Virus/Malware Removal

This System Restore point will be wiped out in a later step (post-virus/mal-ware removal), as malware can persist in old System Restore points

• Restart Windows

Force Restart Windows now to provide a clean environment befor proceeding shutdown -r -f -t 00

• COPS Folder

Create $C:\COPS\$ folder on the system

 \bullet [OPTIONAL] Add C:\COPS\ to the installed antivirus's exclusion list

Trend Micro

Windows Security

• Disable Antivirus

Trend Micro Windows Security

• RKill

- Copy RKill folder from your USB Tool to the COPS folder RKill can't run from a write-blocked drive, so you'll usually need to copy the executables out first
- [IMPORTANT] Run any RKill executable as Admininstrator
- Wait for RKill to complete, it will then generate a report RKill.txt on the current user's desktop
- Move RKill.txt from %USERPROFILE%\Desktop to COPS folder
- Revo Uninstaller
- Disk Cleanup
 - Run cleanmgr /sageset:10

 This will open the Disk Cleanup utility to create settings for Profile 10
 - Click Clean up system files
 - Select all checkboxes except for the following system error options: System error memory dump files System error minidump files

Useful Tip

You can click on an option, and then use the UP + DOWN arrows + Space Bar to quickly check or uncheck options

- Click OK
- Run cleanmgr /sagerun:10 This will run the Disk Cleanup utility to using Profile 10's settings

Scans

- Connect to Internet
- [OPTIONAL] AdwCleaner

 AdwCleaner crashes out of UVK's automation, so run it now instead if

 you want to use it
- [OPTIONAL] Spybot Search & Destroy
 Spybot is a thorough malware removal tool, but it can take a very long time
 to complete it's scans
- [OPTIONAL] Windows Defender Offline Scan
- [OPTIONAL] Create a new System Restore point COPS Pre Virus/Malware Removal
- Ultra Virus Killer (UVK)
 - Install UVK
 - Open UVK
 - $\bullet\,$ Do not disable Hybrid Shutdown if asked when opening UVK

- Do Update UVK if asked when opening UVK
- Click System Repair
- Select the following repair actions: (left menu)
 Useful Tip

You can click on an option, and then use the $\mathtt{UP} + \mathtt{DOWN}$ arrows + Space Bar to quickly check or uncheck options

- Pre-Repair Actions 1. Set technician power settings 2. Kill all non system processes 3. Delete all restore points 4. 5. Free physical memory 6. Create a system restore point 8. Disable Backup the registry 7. Un-immunize all areas the User Account Control 9. Enable the legacy (F8) boot 10. Enable Windows Recovery Environment menii Prevent rebooting until all is done
- Third-Party Built-in Apps 12. Ultra Adware Killer scan 13. MalwareBytes AntiMalware scan 14. Super AntiSpyware scan 15. RogueKiller scan 16. Kaspersky TDSSKiller scan 17. Avast! Browser Cleanup
- Reset Actions 18. Reset the DNS cache 19. Reset the Windows Store 20. Reset all print jobs
- Fixes for Common Windows Problems n/a
- File System Related Actions 21. Rebuild icon cache
- Essential Installes/Updates [If Google Chrome is installed] 22. Insall/Update Chrome 23. Install uBlock Origin for Chrome [If Mozilla Firefox is installed] 24. Install/Update Firefox 25. Install uBlock Origin for Firefox 26. Install uBlock Origin for Edge 27. PatchMyPC Update all apps
- Privacy Cleanup 28. Clear all browsers history (all users) 29. Delete browsers cookies (all users)
- Maintenance Actions 30. Empty all users temp folders 31. Empty browsers cache (all users) 32. Unattended disk cleanup
- System Repair and Optimization n/a
- Windows Troubleshooters n/a
- Post-Repair Actions 33. Restore the previous UAC state 34. Restore previous immunization 35. Delete all restore points (post repair) 36. Create restore point (post 38. Uninstall Malwarebytes repair) 37. Reset power settings Antimalware 39. Uninstall Super AntiSpyware 40. Uinstall RogueKiller 42. Restore 41. Uninstall this application normal boot
- Select the following loadout settings: (right menu) 1. Third party full scans 2. Use unattended mode
- Click Run selected fixes/apps

Post Scans

• [OPTIONAL] Create a new System Restore point COPS - Pre Windows

Update

- Update Windows (no preview updates)
- Update Apps via Microsoft Store
- Update Apps via Windows Package Manager (winget) winget source update winget upgrade --all --silent

Useful Tip

You can queue up multiple commands in PowerShell by pressing Shift+Enter to add a new line before pressing Enter to execute the all of the queued up commands one after another

- [OPTIONAL] Create a new System Restore point COPS Pre Driver Update
- Update Drivers (SDIO)
- Verify Drivers
 - Turn On Windows Verifier:
 - Run verifier
 - Select Create standard settings
 - Click Next
 - Select Automatically select all drivers on this computer
 - Click Finish
 - Restart Windows (shutdown -r -f -t 00)

Windows Verifier works by stressing out drivers as they're loaded (it is expected that the computer's performance will be impacted while verifier is enabled)

If Windows loads into the desktop OK and does not crash with verifier enabled, then all is good and you can proceed to turn it off

- Turn Off Windows Verifier:
 - Run verifier
 - Select Delete existing settings
 - Click Finish
 - Restart Windows shutdown -r -f -t 00
- System Maintenance/Repair
 - Open a Terminal as Administrator Run wt or powershell or cmd
 - Run the following commands:

```
winget source reset --force
winget source update
winget upgrade --all --silent
sfc /scannow
dism /online /cleanup-image /startcomponentcleanup
/resetbase
```

dism /online /cleanup-image /restorehealth
sfc /scannow
defrag /c /o
chkdsk c: /r /scan /perf

Useful Tip

You can queue up multiple commands in PowerShell by pressing Shift+Enter to add a new line before pressing Enter to execute the all of the queued up commands one after another

 Create a new System Restore point COPS - Post Virus/Malware Removal

Android

Pre Scans

• Remove Intrusive Full-Screen Pop-Ups

These relentless pop-ups make the device impossible to work with, so deal with these first (if applicable)

More Info

These full screen pop-ups/ads aren't a sign of an injection, but merely a malicious use of the native Android notification system.

Users don't intentionally give these apps permission to do this, but it's often caused by Tapjacking or simply users ignorantly agreeing to permission prompts.

- Open Play Store
 - Install Ad Virus Cleaner ROX Security
- Open ROX Security
 - Tap Scan
 - Wait for the scan to complete
 - $\bullet \ \mathrm{Tap} \ \mathrm{on} \ \mathsf{Pop}\text{--up} \ \mathsf{Ad} \ \mathsf{Detector}$
 - Tap on Give Permissions

This will open a required permissions settings panel

- Enable ROX Security
- Tap < (back button)
- Wait for an intrusive full-screen pop-up
- Tap | | | (app switch button)
 - Switch back to Rox Security Rox Security should have logged recent app activity under it's Pop-up Ad Detector
- Tap: (kebab button) next to the offending app
 - Tap Show in Play Store
 - Verify the app is not important

If the app is published by Google or the device's manufacturer

(i.e. Samsung) think twice before removing

- Tap Uninstall
- Uninstall ROX Security when done
- Safe Mode

Reboot the device in Safe-Mode (if available)

- Malicious or Suspicious Apps
 - Remove any remote access apps (i.e. AnyDesk, TeamViewer, etc..)

 These are used by scammers to access devices remotely
 - Remove any malicious or bloatware apps

 The following are common types of apps that are unnecessary often
 load their own malware
 - Any free 3rd-party "Cleaner" apps
 - Any free 3rd-party "QR Scanner" apps
 - Any free 3rd-party "PDF Reader" apps (excluding Adobe Acrobat Reader)
 - Any free 3rd-party "File Manager" apps
 - Remove any "Crypto" apps (after verifying the customer does not genuinely use them)

Scammers often load on crypto apps to try and steal currencies the device has access to

• Web Browsers

Clear Cache + Data for all Web Browsers installed on the device.

The following steps are for Google Chrome, but other apps are managed that same way

- Open Settings
 - Tap Apps
 - Tap Chrome
 - Tap Storage
 - Tap Clear cache
 - Tap Clear data

1st Party Scans

- Play Protect Scan
- [If Samsung Device]
 - Samsung Device Care Scan

3rd Party Scans

- Install and Run at least 3 of the following free malware scanners:
 - Malwarebytes Mobile Security
 - AVG AntiVirus & Security
 - Bitdefender Antivirus
 - Sophos Intercept X for Mobile
 - Avira Security Antivirus & VPN

- Trend Micro Mobile Security & Antivirus
- ESET Mobile Security Antivirus
- TotalAV Mobile Security untested if can be used without an account
- Panda Dome Antivirus and VPN untested if can be used without an account
- Avast Antivirus & Security untested if can be used without an account

Updates

- Update Apps via Play Store
- [If Samsung Device]

Backup / Export

- Update Apps via Galaxy Store
- Update Android OS

 This may take multiple updates and reboots, as customers often neglect updating their devices

Bachap / El	ipor c	
$\mathbf{Windows}$		
macOS		
Backup Device • Use Time Mad	chine	
iOS		

Export Photos

Export Messages

• imessage-exporter

- Connect the iOS device to a macOS device You may need to unlock the iOS device and tap Trust if prompted
- Open Image Capture app
- Click on the iOS device

 The connected iOS device should show up under DEVICES on the left
- Change Import To: folder
 Make a Job# folder to import the photos/videos to

• Click Download All

Backup iCloud Photos

- Submit Apple Privacy Data Request
 - Sign in Apple's Data and Privacy page with the customer's Apple Account
 - Click Request a copy of your data
 - Tick iCloud Photos
 - Click Continue
 - Choose the largest bundle/zip size (this will make downloading the files easier, as you can only download 3 of the part files at a time)
- Check confirmation email

Apple will send a confirmation email to the customer's Apple Account email address, if this does not come through now then you may have issues receiving the download link email later

- Wait for the download link email Apple will have to compile and zip up all of the data you requested, this can take many days
- Open download link
- Download all .zip files Apple prepared for download
- Unzip all .zip files
- Combine the unzipped data in to one folder

Android	
OS Install M	Iedia Creation
Windows	
•	

Download

• Download from massgrave.dev

Verify

• Verify checksums against rg-adguard.net

Flash

• Flash image to USB using Rufus winget install rufus.rufus

Inject Drivers

- Prep
 - \bullet Have a folder with extracted drivers ready to go
 - C:\drivers\ for this example
 - Create an empty directory ready to mount the Windows image to for editing
 - C:\mount\ for this example
 - Have a Windows image ready to go
 F:\sources\install.wim for this example
- Mount
 - Open Powershell as admin
 - Find index of the Windows image you want to mount Get-WindowsImage -ImagePath F:\sources\install.wim
 - Mount the Windows image
 Mount-WindowsImage -Path C:\mount\ -ImagePath F:\sources\install.wim
 -Index 1
- Add Drivers
 - Add-WindowsDriver -Path C:\mount\ -Driver C:\drivers\ -Recurse -ForceUnsigned
- Unmount
 - Dismount-WindowsImage -Path C:\mount\ -Save

Sideloading

Android		

Download

- Download desired .APK from 3rd party source or directly from the Google Play store using Aurora Store
- [If you can only download an App Bundle (.APKS, .XAPK, .APKM)]
 - \bullet Use AntiSplit M to merge the bundle components back in to a .APK file

Upload

- Connect the Android device to a computer
- Navigate to it's mounted file system (i.e. in This PC)
- Open Downloads folder
- Copy .APK file in to the Downloads folder

Install

- Enable Sideloading

 Depending on the manufacturer of the device, you may need to enable

 Sideloading before you can install .APK files

 Samsung
- Open Files app
- Navigate to Downloads folder
- \bullet Tap on the .APK file
- Tap Install

USB Tool

Ventoy

Medicat

Bootable Tools

Windows Tools

COPS Extras (scripts, etc..)

Reference

Apps

Windows

App	Install	Description	Use Case
AMD Adrenalin			
Apple iTunes	winget install		DEPRECATE-
	Apple.iTunes		DUse Apple
			Devices instead
Apple Devices	winget install		
	"Apple		
	Devices"		
Clear Disk Info	winget install		
	Carifred.ClearDi	skInfo	
CPUID CPU-Z	winget install		
	CPUID.CPU-Z		
CPUID	winget install		
HWMonitor	CPUID.HWMonitor		

App	Install	Description	Use Case
CrystalDiskInfo	winget install CrystalDewWorld	d.CrystalDiskInfo	DEPRACATED- Misreports SMART data on some drives, use Clear Disk Info instead
CrystalDiskMark	winget install	l.CrystalDiskMark	
Display Driver Uninstaller (DDU) FileZilla	winget install	splayDriverUninstal	ler
ForensiT Transwiz	winget install ForensiT.Transv	viz	DEPRECATED- Breaks with newer OneDrive and Windows 11 releases, manually copy %USER- PROFILE% instead
Furmark	winget install Geeks3D.FurMark	- 0	
GPU-Z	winget install TechPowerUp.GPU		
Intel HD			
Graphics			
Libre Office Microsoft Office	winget install	ndation.LibreOffice	
Microsoft PC Health Check Microsoft Visual Studio Code Microsoft Windows Terminal Microsoft Verifier	Microsoft.Offic winget install Microsoft.Windowinget install Microsoft.Visua winget install Microsoft.Windo	owsPCHealthCheck	
MiniTool Partition Wizard NirSoft BlueScreenView	winget install MiniTool.Partit winget install NirSoft.BlueScr		

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App	Install	Description	Use Case
HashCheck Shell Extension Git	winget install idrassi.HashChec winget install Git.Git	kShellExtension	
MakeMKV	winget install GuinpinSoft.Make	•MKV	
HD Tune Pro	winget install EFDSoftware.HDTu	HDD / SSD	Benchmark drive speed over time with graph
7-Zip AltSnap BandiZip BandiView Bitwarden Winget Chocolatey FFmpeg FileBot HandBrake iPerf JDownloader HexChat qBittorrent MediaInfo Microsoft OneDrive Google Drive DropBox			
NVIDIA GeForce Experience Papa's Best STL Viewer PowerToys Proton VPN ReNamer Rufus BalenaEtcher SD Card Formatter Raspberry Pi Imager WinRAR			DEPRECATE- DUse NVIDIA App instead

App	Install	Description	Use Case
Win32 Disk			
Imager			
WizTree			
Everything			
yt-dlp	winget install		
	yt-dlp.yt-dlp		
Audacity			
Exact Audio			
Copy (EAC)			
OpenOffice			
Inkscape	winget install		
	Inkscape.Inkscap	e	
Intel PresentMon			
Chocolatey		Alternative	
		Windows package	
_		manager	
Scoop		Alternative	
		Windows package	
		manager	
iMazing	winget install		
Converter	DigiDNA.iMazingH	EICConverter	
iMazing	winget install		
	DigiDNA.iMazing		

macOS

App	Install	Description	Use Case
Apple Image Capture		Download photos/videos from digital cameras or iOS devices	Useful for backing up photos/videos from iOS devices, even if their iCloud account isn't working, as it treats the iOS device like a digital camera and simply imports the local copies on the device

App	Install	Description	Use Case
Microsoft Remote Desktop			DEPRECATE- DUse Microsoft Windows App instead
Microsoft Windows App			

iOS

Android

App	Description	Use Case
Appwatch	Snitch on app activity	DEPRECATEDUse Rox
		Security instead
Aurora Store	Alternative Google	Install apps from the
	Play Store app	Play Store repository
		without needing to log
		in with a Google
		Account, and can
		download .APKs from
		the Play Store for later
		sideloading
Rox Security	Multi-tool for identifying	Identify apps that are
	unusual/unwanted app	responsible for instrusive
	behaviour, including	full-screen pop-ups
	snitching on app activity	

Commands

Windows

Command	Description	Use Case
\	Opens %SYSTEMDRIVE% folder	Quick access to C:\
appwiz.cpl	Opens Programs and Features control panel window	
calc charmap	Opens Calculator app Opens Character Map app	

Command	Description	Use Case
chrome	Opens Google Chrome app (if installed) Opens Command Prompt	
code	app (if installed) Opens Visual Studio Code app	
compmgmt.msc	Opens Computer Management snap in	
control	Opens Control Panel	
control folders	Opens File Explorer Options window	
control keyboard	Opens Keyboard Properties window	
control printers	Opens Bluetooth & devices settings window	Quick access to Printers & scanners
control update	Opens Windows Update settings window	
desk.cpl	Opens Display settings window	
devmgmt.msc	Opens Device Manager snap in	
diskmgmt.msc	Opens Disk Management snap in	
diskpart	Opens Microsoft DiskPart command line interface	
documents	Opens current user's Documents folder	
downloads	Opens current user's Downloads folder	
dxdiag	Opens DirectX Diagnostic Tool app	
eventvwr.msc	Opens Event Viewer snap in	
explorer	Opens Windows Explorer	
firefox	Opens Mozilla Firefox app (if installed)	
firewall.cpl	Opens Windows Defender Firewall control panel window	
fonts	Opens Fonts folder	

Command	Description	Use Case
gpedit.msc	Opens Local Group Policy Editor snap in	
iexplore	Opens Internet Explorer app	
inetcpl.cpl	Opens Internet Properties window	Quick access to Proxy server settings
joy.cpl	Opens Game Controllers window	Use to test game controller inputs
lusrmgr.msc	Opens Local Users and Groups snap in	Powerful control over User Accounts and Groups, but does not work on Windows Home editions
main.cpl	Opens Mouse Properties window	
manage-bde c: -off	Run in a terminal to decrypt and disable BitLocker on C: drive	
manage-bde -status	Run in a terminal to show BitLocker status of all drives	
mdsched	Opens Windows Memory Diagnostic app	
mmc	Opens empty Microsoft Management Console snap in	
mmsys.cpl mrt	Opens Sound window Opens Microsoft Windows Malicious Software Removal	
msconfig	Tool app Opens System Configuration window	Quick access to Safe boot or Windows boot entries
msedge	Opens Microsoft Edge app	
msinfo32	Opens System Information	
mstsc	Opens Remote Desktop Connection app	
ms-windows-store:	Opens Microsoft Store app	

Command	Description	Use Case
ncpa.cpl	Opens Network Connections control panel window	
netplwiz	Opens User Accounts window	Less powerful control over User Accounts, but does work on Windows Home editions
notepad	Opens Notepad app	
onedrive	Opens current user's OneDrive folder	
osk	Opens On-Screen Keyboard	
pictures	Opens current user's Pictures folder	
powercfg.cpl	Opens Power Options control panel window	
powershell	Opens Powershell app	
regedit	Opens Registry Editor app	
resmon	Opens Resource Monitor app	
services.msc	Opens Services snap in	
shell:appsfolder	Opens Applications folder	Useful for creating shortcuts to Microsoft Store apps
shell:mycomputerfolder	Opens This PC folder	
shell:recyclebinfolder	Opens Recycle Bin folder	
shell:startup	Opens Startup folder	
shutdown -h	Hibernate computer	
shutdown -1	Log off	
shutdown -r -fw	Restart Windows and boot in to BIOS / UEFI	
shutdown -r -o	Restart Windows and boot in to Recovery Environment	
shutdown -r -f -t 00	Force Restarts Windows immediately	
shutdown -s -f -t 00	Force Shuts down Windows immediately	
snippingtool	Opens Snipping Tool app	
sysdm.cpl	Opens System Properties window	Quick access to System Restore

Command	Description	Use Case
taskmgr	Opens Task Manager	
	app	
taskschd.msc	Opens Task Scheduler	
	snap in	
timedate.cpl	Opens Date and Time	
	window	
verifier	Opens Driver	
	Verifier Manager app	
videos	Opens current user's	
	Videos folder	
vlc	Opens VLC Media	
	Player app $(if installed)$	
winver	Opens About Windows	Quick way to check
	window	installed Windows
		edition
		(Home/Pro/Enterprise),
		version, and build
wt	Opens Windows	
	Terminal app	
%APPDATA%	Opens current user's	
N	AppData\Roaming folder	
%LOCALAPPDATA%	Opens current user's	
% GLIGHERADD TITE!	AppData\Local folder	
%SYSTEMDRIVE%	Opens the root folder of	
9/1999 179 9/	the system drive	
%TEMP%	Opens current user's	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Temp folder	
%USERPROFILE%	Opens current user's	
0/1 ITND TD 0/	profile folder	
%WINDIR%	Opens Windows folder	

Hotkeys

Windows

Resources

${\bf Hardware}$

Learn general device repair and
electronics skills
Repository of repair guides for specific devices

Repair Wiki	Guides for troubleshooting more
	specific or niche device issues
Keyboard Checker	Keyboard tester
HardwareTester - Midi Tester	Test MIDI input devices
HardwareTester - Gamepad Tester	Test Gamepads / Controllers
HardwareTester - Microphone Tester	Test Microphones
PassMark - CPU Benchmarks	Compare CPU's
PassMark - Videocard Benchmarks	Compare Videocards
PassMark - Memory Benchmarks	Compare Memory Modules
PassMark - Hard Drive Benchmarks	Compare HDD's / SSD's

Networking

Repository of router port forwarding
guides and ports for common software
Repository of default router
usernames/passwords and IP
addresses
Test internet connection download,
upload, ping speeds

chr ### Security

Bitwarden Password Generator	Great password generator to create unique Passphrases
Have I Been Pwned	

Software

winstall	Make winget install scripts to batch
	install software
Ninite	Make standalone batch software
	installers
Adobe PDF Tools	Free to use PDF tools, use
	Incognito/Private mode to exceed free
	'try' limits
Photopea	Free Photoshop alternative that runs
	in the web browser
PrintFriendly	Convert various file formats to PDF

Watermark Remover	AI watermark removing tool, use
	Incognito/Private mode to exceed free
	'try' limits

Phonetic Alphabet

The NATO Phonetic Alphabet can be very useful when trying to provide remote support over the phone

A	Aplha
В	Bravo
С	Charlie
D	Delta
Ε	Echo
F	Foxtrot
G	Golf
Η	Hotel
Ι	India
J	$\operatorname{Juliett}$
Κ	Kilo
L	Lima
Μ	Mike
Ν	November
Ο	Oscar
Ρ	Papa
Q	Quebec
R	Romeo
\mathbf{S}	Sierra
Τ	Tango
U	Uniform
V	Victor
W	Whiskey
Χ	X-ray
Y	Yankee
\mathbf{Z}	Zulu