# How to Extract and Repack Installed Apps in W10M



## Coverage of the Guide

- 1. How to Extract an app from the phone
- 2. Recognizing if the extracted App is a Silverlight(Xap) or an UWP(Appx/bundle)
- 3. How to repack Extracted files to app's file format



## 1. How to Extract an App from the phone

There are two ways to Extract an App from the phone

- I. Without a PC by third party apps
- II. Via Mass Storage Mode

## How to Extract an App without a PC

## Pre Requirements:-

• An Interop unlocked W10M device

For X50 :- https://mega.nz/#F!2FxWHb5T!7pKkVuEzvb2zqve9FYxOvg

All Other Lumia :- https://mega.nz/#F!GAxE0JYD!ffm dTmfmYbBuD1jMvrUJA

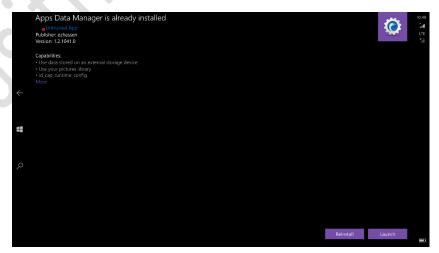
Other OEM :- https://mega.nz/#F!bNxCUJIC!tvG5FnMGMTJjZJ4T0dSklg

• App Data Manage tool or Apps Data Manager (Apps Data manager is recommended)

Apps Data Manager:

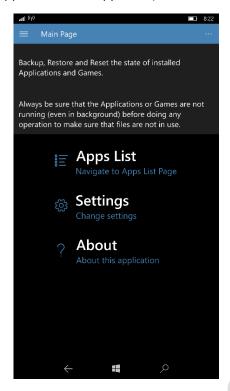
https://mega.nz/#!DEgCGZRL!xhy4Jqq18nVKR Xch9ax KxqKWPlWxrcFnKSg0xN7PY

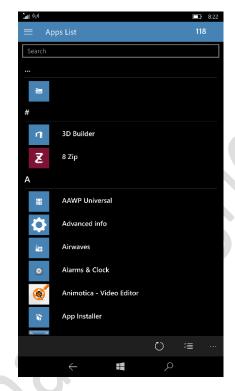
> Install either any of the apps, since I prefer Apps Data Manager, I will go along with it Guide (Appx Install) :- <a href="https://mega.nz/#F!iNhAkLQD!1BYw9KvE\_dRM5Ysd0DqimQ">https://mega.nz/#F!iNhAkLQD!1BYw9KvE\_dRM5Ysd0DqimQ</a>



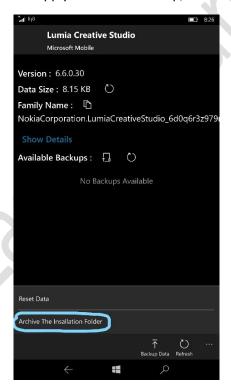


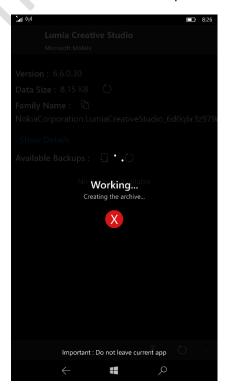
> Open the App and choose Apps List (If asked for a backup folder, give anywhere you want)





> Now choose the app you want to backup, then click the three dots and do as the pictures





- > Don't close or change to another app while it's extracting the App data.
- > When finished, Skip to next topic

Windows 10 Mobile (Lumia) Group :- <a href="https://t.me/Windows10Phone">https://t.me/Windows10Phone</a>



#### How to Extract an App from Mass Storage Mode

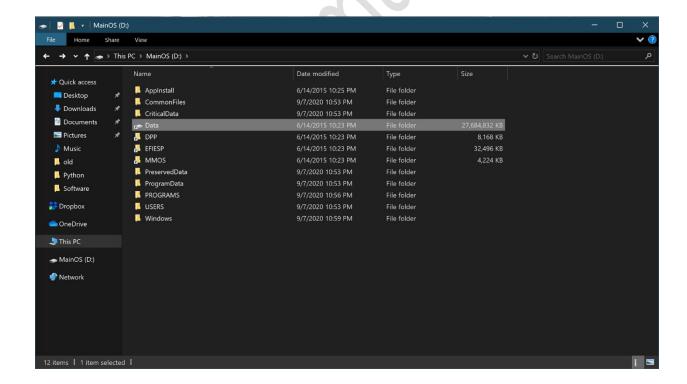
\* To gain Mass Storage Mode you need to unlock bootloader of your phone, Since I'm not going to describe it here, here's the guide by Gustave Monance;

https://github.com/WOA-Project/guides/blob/master/WIP-NewGuide.md

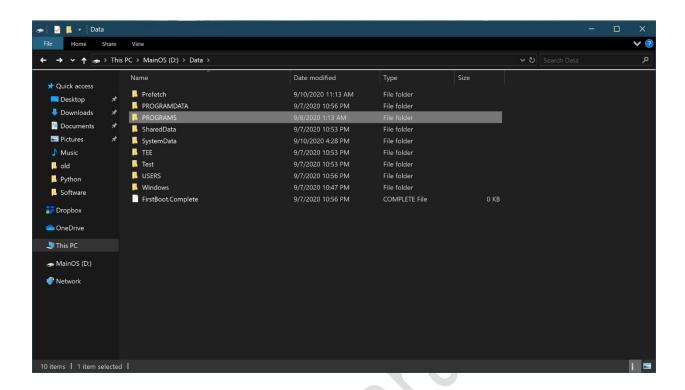
- \* If you are new to these, go with the first method, using the App
- \*\*DO NOT PLAY WITH MASS STORAGE MODE UNLESS YOU HAVE A BACKUP\*\*
- > When you boot into Mass Storage Mode, go here

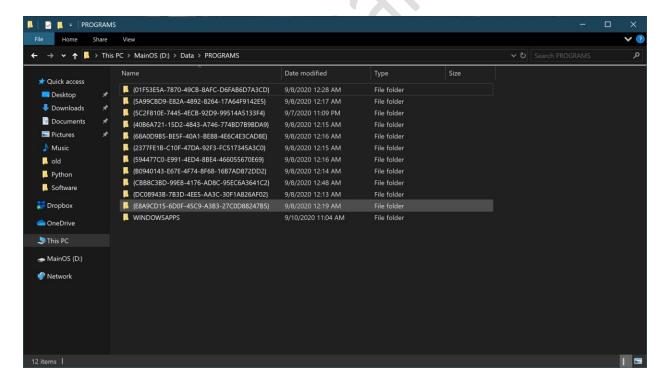
#### MainOS → Data → PROGRAMMS

- > You probably will not be able to access any of the folders in Programms folder, Gain access by setting ownership of the folder in Properties  $\rightarrow$  security  $\rightarrow$  Advanced, after gained access copy them to anywhere in your PC, don't do anything in Phone!
- > Here are some Pics to the location;

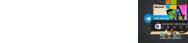








- > Here contains the Apps Installation files, few in the programs folder and others are in that folder called (WINDOWSAPPS).
- > These can be Appx or Xap, to recognize, read the next topic.



## 2. How to Identify if the extracted App is a Xap or an Appx/bundle

- \*The main way to identify an App is to look for it's Manifest file
- \* Some will say you can identify by looking at it's interface but UWP devs can also use old interface too so it's not a good measure.

So the Main noticable difference is this;

- ✓ Appx has AppxManifest.xml file as the apps manifest
- √ Xap has WMAppManifest.xml as it's manifest

So you can decide it just by looking for the above files as neither of them have both files in one package.

Type File folder Ouick access MSACLULViewer.UWP 11/20/2020 12:33 PN Desktop MSACL.UniversalBanner.UWF 11/20/2020 12:33 PM File folder 11/20/2020 12:33 PM File folder Appx Files :-Downloads Syncfusion.SfAccordion.UWP Syncfusion.SfRadialMenu.UWP 11/20/2020 12:33 PN File folder Documents File folder Syncfusion.SfRichTextBoxAdv.UWF 11/20/2020 12:33 PM Syncfusion.SfShared.UWP 11/20/2020 12:33 PM File folder Pictures 11/9/2020 12:44 PM [Content\_Types].xml XML Documen Videos 05DBE9EA-EF75-43DB-8A03-27898B59D1E9 11/9/2020 12:44 PM 7z.UWP.dll 11/9/2020 12:44 PM 1,160 KB OneDrive Application exter AdDuplex.winmd 11/9/2020 12:44 PM WINMD File 29 KB > This PC ApplicationInsights.config XML Configuration Fi. 11/9/2020 12:44 PM AppxBlockMap.xml AppxManifest.xml 11/9/2020 12:44 PM XML Document 11/9/2020 12:44 PM 25 KB AppxSignature.p7x 11/9/2020 12:44 PM P7X File Arhino.UWP.dll 11/9/2020 12:44 PM 852 KB Arhino.winmd 11/9/2020 12:44 PM WINMD File 15 KB AudioEqualizer.dll AudioEqualizer,winmd 11/9/2020 12:44 PM WINMD File 2 KB clrcompression.dll Application extension MatroskaSource.dll 11/9/2020 12:44 PM Application extension 141 KB MatroskaSource.winmo MetroZip.dll 11/9/2020 12:44 PM Application extension 31.036 KB MetroZip.exe MetroZip.xr.xml 11/9/2020 12:44 PM XML Document 55 KB Microsoft.Graphics.Canvas.dll Microsoft Graphics Canvas winmd 11/9/2020 12:44 PM WINMD File 266 KB Search Spotify ↑ 3 > Spotify → Quick access SpotifyAgentRpc.dll SpotifyAgentRpc.winmo 11/19/2020 9:11 AM 44 KB Desktop SpotifyAgentRpcProxyStub.dll 11/19/2020 9:11 AM Application ext 64 KB Documents SpotifyCoreWinRt.dll 11/19/2020 9:11 AM 8,883 KB → Music SpotifyCoreWinRt.winmd SpotifyCoreWinRtTypes.dll 11/19/2020 9:11 AM WINMD File 52 KB Pictures Xap Files :-Videos SpotifyCoreWinRtTypes.winmd 11/19/2020 9:11 AM WINMD File 50 KB SpotifyWebApi.dll 11/19/2020 9:11 AM SpotifyWp8.dll 11/19/2020 9:11 AM Application extension 2.975 KB SpotifyWp8AudioAgent.dll 11/19/2020 9:11 AM SpotifyWp8Common.dll sqlite3.dll 11/19/2020 9:11 AM Application extension 140 KB SQLite-net.dll 11/19/2020 9:11 AM Application extension 145 KB SQLitePCL.cppinterop.dll SQLitePCL.cppinterop.winmd 11/19/2020 9:11 AM WINMD File 27 KB System.Net.Http.dll 11/19/2020 9:11 AM Application extension 481 KB System.Net.Http.Extensions.dll System Net Http Extensions xml 11/19/2020 9:11 AM XML Document 6 KB System.Net.Http.Primitives.dll

System.Net.Http.Primitives.xml

System.Net.Http.xml System.Windows.Interactivity.dll

WMAppManifest.xml

11/19/2020 9:11 AM

11/19/2020 9:11 AM

XML Document

Application exten

3 KB

74 KB

- 3. How to repack the Extracted app files
- > Now after recognizing what type of app you just extracted, all you need to do now is to repack it So according to the type of the app,
  - How to repack Appx
  - How to repack Xap

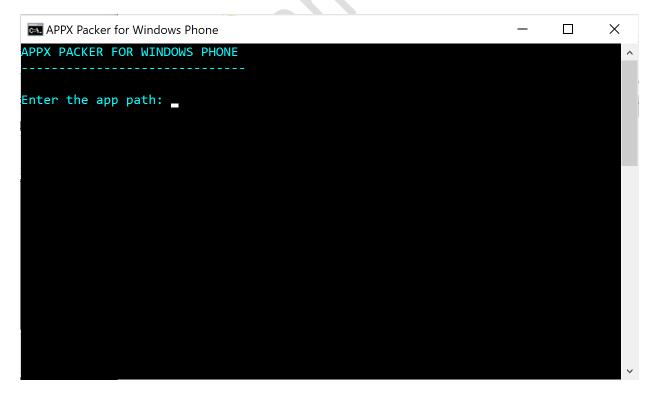
## How to repack Appx

\* Normally appx packing is done via the Windows Phone SDK by going from tool to tool but Fadil Fadz created Appx packer with all tools of the SDK in it so it is very easy now.

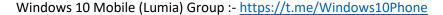
Link :- https://mega.nz/#F!qRwCHBAb!Az-afhC-X-nUmYnYrTvsyw

> Extract it to somewhere and run the batch file

This will be the Interface.



> Now it will ask for the app's data path, give it the path you extracted/copied from Mass Storage Mode, Next give it the path you need to have the packed Appx.





> Finnaly it will ask for the Publisher, for that,

Open the "AppxManifest.xml" file, Look for Publisher and Copy and paste it to the packer (With Quotation marks), see the example picture,

```
AppxManifest.xml - Notepad
                                                                                                                                                                                                                                                                                                 П
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<Package xmlns="http://schemas.microsoft.com/appx/manifest/foundation/windows10" xmlns:mp="http://schemas.microsoft.com/appx/2014/phone</pre>
         ЭТОТ ФАЙЛ МАНИФЕСТА ПАКЕТА СОЗДАН ПРОЦЕССОМ СБОРКИ.
         Изменения этого файла будут потеряны при его повторном создании. Чтобы исправить ошибки в этом файле, измените исходный файл .appxr
   Дополнительные сведения о файлах манифестов приложений см. по адресу http://go.microsoft.com/fwlink/?LinkID=241727
     <Identity Name="BooStudioLLC.8ZipNew" Publisher="CN=DAC4344D-4C49-4539-938D-A1947B946DCD" Version="1.2.132.0" ProcessorArchitecture=
      <mp:PhoneIdentity PhoneProductId="9da1d93f-2909-4c02-a7de-2a28c052c5f8" PhonePublisherId="4f353c3c-f5b1-4ead-9491-db5d04fffecd" />
      <Properties>
          <DisplayName>8 Zip</DisplayName>
          <PublisherDisplayName>Finebits OU</PublisherDisplayName>
           <Logo>Assets\StoreLogo.png</Logo>
      </Properties>
      <Dependencies>
          -(TargetDeviceFamily Name="Windows.Universal" MinVersion="10.0.15063.0" MaxVersionTested="10.0.15063.0" />
         <PackageDependency Name="Microsoft.NET.Native.Framework.1.6" MinVersion="1.6.24903.0" Publisher="CN=Microsoft Corporation, O=Microsoft Corpor
          <PackageDependency Name="Microsoft.Services.Store.Engagement" MinVersion="10.0.1610.0" Publisher="CN=Microsoft Corporation, 0=Micro</pre>
          <PackageDependency Name="Microsoft.VCLibs.140.00" MinVersion="14.0.24123.0" Publisher="CN=Microsoft Corporation, 0=Microsoft Corporation</p>
      </Dependencies>
      <Resources>
          <Resource Language="EN" />
          <Resource Language="AR" />
          <Resource Language="AZ-LATN" />
                                                                                                                                                                                               Ln 10, Col 92
                                                                                                                                                                                                                                      100% Windows (CRLF)
                                                                                                                                                                                                                                                                                     UTF-8 with BOM
```

> Then the batch will start to pack and if succeed, it will turn to a white page and show that it's packed and moved to the output path you gave when asked.

Then Install the result Appx to your phone

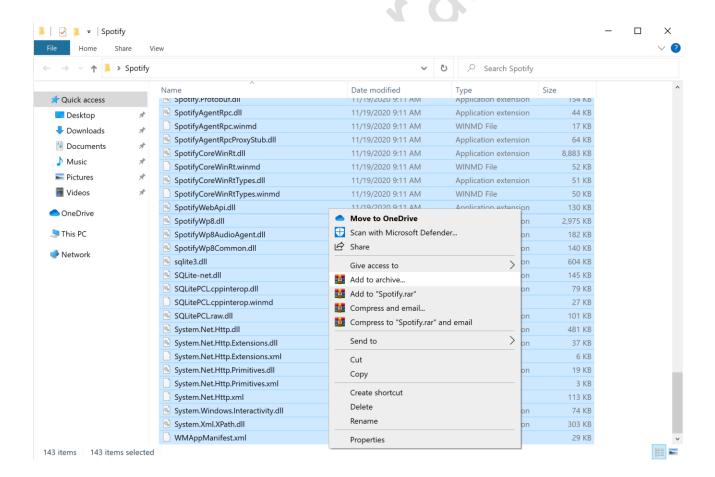
Guide:- https://mega.nz/#F!iNhAkLQD!1BYw9KvE dRM5Ysd0DqimQ



#### How to repack Xap

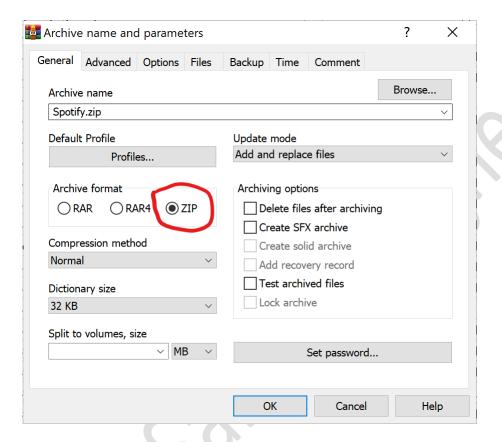
- \* To repack Xap you don't need any special software, only need a archive manager like Winrar for PC and 8Zip for W10M.
- \* If you used the Apps Data Manager tool to extract app and when you open the zip file, you may see a lot of folders, what you need is all the Files inside "Install" Folder
- > Now first, find "WMAppPRHeader.xml" file and delete it
- > After delete, select all files you just extracted or copied from Mass Storage Mode and make a new .Zip file, this is easy to do in PC and I will show some screenshots

(Here I'm repacking Spotify app with Winrar)





## > You need to make .Zip format file



- > Then when it's done, you will have the Zip file right in that folder
- > Now all you need to do is click Rename the File and rename the Extension from .Zip for .Xap
- > That's it, go deploy it to phone!

Xap Deploy Guide:- https://mega.nz/#F!OV5SQJjI!mZmMLgrR-EqeMKhJ7JoLZw

#### Notice

You can also do the repacking Xap in W10M via 8Zip app but it will take more time.

So copiyng them to PC and do it via PC is easy.



#### **Additional Notes**

- You don't need to use the exact same software I used, if you use others, you can go with them.
- When following Mass Storage method, keep in mind to not to play with files of the MainOS
   patition of the phone or any of the partitions, if you do, maybe it will lead to a permanent Brick.

## **Credits**

- Thx Healthcliff for Windows Phone Internals
- Thx ezhassen for Apps Data Manager
- Thx Fadil Fadz for Appx Packer

That's All I planned to Cover here.

Thank you, Have a Good Day!



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