

Windows 11 updater that ignores TPM and SecureBoot

Oct 2021

This file allows a user to update or create USB media for installing Windows11. If you update you will keep your license, a fresh install requires a new license.

You need to copy the code below to a file called MCT.bat

mediacreationtool.zip

```
@goto :start MediaCreationTool.bat - latest at pastebin.com/bBw0Avc4 or
github.com/AveYo/MediaCreationTool.bat
:Universal MCT wrapper script for all Windows 10/11 versions from 1507 to 21H2!
:: Nothing but Microsoft-hosted source links and no third-party tools; script just configures an xml and
starts MCT
:: Ingenious support for business editions (Enterprise / VL) selecting language, x86, x64 or AiO inside
the MCT GUI
:: Changelog: 2021.10.23
:: more intuitive presets; 11 setup override via AutoUnattend.xml or via boot.wim (for VirtualBox 5.x)
with FIX arg
:: only reliable ui automation; enhanced script output; make generic media if no edition arg; use
Downloads folder
:: 11: 22000.258 / 21H2: 19044.1165 / 21H1: 19043.928 / 20H2: 19042.1052 / 2004: 19041.572 / 1909:
18363.1139

::# uncomment to skip gui dialog for MCT choice: 1507 to 2109 / 11 - or rename script: "21H2
MediaCreationTool.bat"
rem set MCT=2110

::# uncomment to start auto upgrade setup directly (no prompts) - or rename script: "auto 11
MediaCreationTool.bat"
rem set/a AUTO=1

::# uncomment to start iso file creation directly in \Downloads - or rename script: "iso 20H2
MediaCreationTool.bat"
rem set/a ISO=1

::# uncomment and change autodetected MediaEdition - or rename script: "enterprise iso 2009
MediaCreationTool.bat"
rem set EDITION=Enterprise

::# uncomment and change autodetected MediaLangCode - or rename script: "de-DE home 11 iso
MediaCreationTool.bat"
rem set LANGCODE=en-US

::# uncomment and change autodetected MediaArch - or rename script: "x64 iso 1909 Education
MediaCreationTool.bat"
rem set ARCH=x64

::# uncomment and change autodetected KEY - or rename script / provide via commandline - not needed for
generic keys
rem set KEY=NPPR9-FWDCX-D2C8J-H872K-2YT43

::# uncomment to disable online dynamic update on upgrade - or rename script: "no_update auto
MediaCreationTool.bat"
rem set/a NO_UPDATE=1

::# uncomment to disable Windows.old undo & save space - or rename script: "no_undo auto 20H2
MediaCreationTool.bat"
rem set/a NO_UNDO=1

::# uncomment to not add $OEM$, PID.txt, auto.cmd, AutoUnattend.xml - or rename script: "def
```

```
MediaCreationTool.bat"
rem set/a DEF=1

::# uncomment to disable boot.wim 11 setup checks in VirtualBox 5.x - or rename script: "fix
MediaCreationTool.bat"
::# optional, if default registry overrides of TPM, CPU, RAM etc. applied via AutoUnattend.xml do not
work
rem set/a FIX=1

::# comment to not use recommended windows setup options that give the least amount of issues when doing
upgrades
set OPTIONS=%OPTIONS% /Compat IgnoreWarning /MigrateDrivers All /ResizeRecoveryPartition Disable
/ShowOOBE None

::# comment to not disable setup telemetry / disable Compact OS
set OPTIONS=%OPTIONS% /Telemetry Disable /CompactOS Disable

::# comment to not unhide Enterprise for 1709+ in products.xml
set/a UNHIDE_BUSINESS=1

::# comment to not insert Enterprise esd links for 1607,1703 or update links for 1909,2004,20H2,21H2,11
in products.xml
set/a INSERT_BUSINESS=1

::# MCT Version choice dialog items and default-index [11]
set VERSIONS=1507,1511,1607,1703,1709,1803,1809,1903,1909,20H1,20H2,21H1,21H2,11
set dV=14

::# MCT Preset choice dialog items and default-index [Select in MCT]
set PRESETS=Auto Upgrade,Make ISO,Make USB,Select,MCT Defaults
set dP=4

:begin
call :reg_query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion" "CurrentBuildNumber" OS_VERSION
call :reg_query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion" "DisplayVersion" OS_VID
call :reg_query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion" "EditionID" OS_EDITION
call :reg_query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion" "ProductName" OS_PRODUCT
call :reg_query "HKU\S-1-5-18\Control Panel\Desktop\MuiCached" "MachinePreferredUILanguages" OS_LANGCODE
for %%0 in (%OS_LANGCODE%) do set "OS_LANGCODE=%%0"
set "OS_ARCH=x64" & if "%PROCESSOR_ARCHITECTURE:~-2%" equ "86" if not defined PROCESSOR_ARCHITECTURE6432 set
"OS_ARCH=x86"

::# parse MCT choice from script name or commandline - accepts both formats: 1909 or 19H2 etc.
set V=1.1507 2.1511 3.1607 4.1703 5.1709 6.1803 7.1809 8.1903 8.19H1 9.1909 9.19H2 10.2004 10.20H1
11.2009 11.20H2 12.2104 12.21H1
for %%V in (%V% 13.2109 13.21H2 14.2110 14.11) do for %%0 in (%MCT% %%~n0 %*) do if /i %%~xV equ .%%~0
(set MCT=%%~nV&set VID=%%~0)
if defined MCT if not defined VID set "MCT="

::# parse AUTO from script name or commandline - starts unattended upgrade / in-place repair / cross-
edition
for %%0 in (%~n0 %*) do if /i %%0 equ auto set/a AUTO=1
if defined AUTO set/a PRE=1 & if not defined MCT set/a MCT=%dV%

::# parse ISO from script name or commandline - starts media creation with selection
for %%0 in (%~n0 %*) do if /i %%0 equ iso set/a ISO=1
if defined ISO set/a PRE=2 & if defined AUTO (set AUTO=)

::# parse EDITION from script name or commandline - accept one of the staged editions in MCT install.esd
- see sources\product.ini
set _=%EDITION% %%~n0 %* & rem ::# also accepts the alternative names: Home, HomeN, Pro, ProN, Edu, EduN
for %%0 in (%_:Home=Core% %_:Pro =Professional% %_:ProN=ProfessionalN% %_:Edu =Education %
%_:EduN=EducationN%) do (
for %%E in ( ProfessionalEducation ProfessionalEducationN ProfessionalWorkstation
ProfessionalWorkstationN Cloud CloudN
Core CoreN CoreSingleLanguage CoreCountrySpecific Professional ProfessionalN Education EducationN
Enterprise EnterpriseN
) do if /i %%0 equ %%E set "EDITION=%%E")
```

```

::# parse LANGCODE from script name or commandline - accepts any words starting with xy-
for %%0 in (%~n0 %*) do set ".=%%~0" & for /f %%C in ('cmd/q/v:on/recho;!.:~2^,1!') do if "%C" equ "-"
set "LANGCODE=%%0"

::# parse ARCH from script name or commandline - no, it does not accept "both"
for %%0 in (%~n0 %*) do for %%A in (x86 x64) do if /i %%0 equ %%A set "ARCH=%%A"

::# parse KEY from script name or commandline - accepts the format: AAAAA-VVVVV-EEEE-YYYY-0000
for %%0 in (%KEY% %~n0 %*) do for /f "tokens=1-5 delims=-" %%a in ("%%0") do if "%e" neq "" set
"PKEY=%%0" & set "KEY="
if defined PKEY set "PKEY1=%PKEY:~-1%" & set "PKEY28=%PKEY:~28,1%"
if defined EDITION if "%PKEY1%" equ "%PKEY28%" (set "KEY=%PKEY%") else set "PKEY="

::# parse NO_UPDATE from script name or commandline - dont download and apply latest LCU on upgrade
[more C: space and might fail]
for %%0 in (%~n0 %*) do if /i %%0 equ no_update set "NO_UPDATE=1"
if defined NO_UPDATE (set UPDATE=/DynamicUpdate Disable) else (set UPDATE=/DynamicUpdate Enable)

::# parse NO_UNDO from script name or commandline - dont create Windows.old undo data on upgrade [faster
but less reliable]
for %%0 in (%~n0 %*) do if /i %%0 equ no_undo set "NO_UNDO=1"
if defined NO_UNDO (set UNDO=/Uninstall Disable) else (set UNDO=)

::# parse DEF from script name or commandline - dont add $OEM$, PID.txt, auto.cmd, Skip TPM (if
applicable) to created media
for %%0 in (%~n0 %*) do if /i %%0 equ def set "DEF=1"
::# hint: setup can run a tweaking script before first logon, if present at $OEM$\$$\Setup\Scripts\
setupcomplete.cmd or 00BE.cmd

::# parse FIX from script name or commandline - disable boot.wim 11 setup checks; use when registry
override fail (VirtualBox 5.x)
for %%0 in (%~n0 %*) do if /i %%0 equ fix if not defined DEF set "FIX=yes"

::# parse HIDE from script name or commandline - hide script windows while awaiting MCT processing (new
default is to minimise)
set hide=2& (for %%/ in (%~n0 %*) do if /i %%/ equ hide set hide=1)

::# auto detected / selected media preset
if defined EDITION (set MEDIA_EDITION=%EDITION%) else (set MEDIA_EDITION=%OS_EDITION%)
if defined LANGCODE (set MEDIA_LANGCODE=%LANGCODE%) else (set MEDIA_LANGCODE=%OS_LANGCODE%)
if defined ARCH (set MEDIA_ARCH=%ARCH%) else (set MEDIA_ARCH=%OS_ARCH%)
if not defined VID (set VID=%OS_VID%)

::# edition fallback to ones that MCT supports
(set MEDIA_EDITION=%MEDIA_EDITION:Embedded=Enterprise%)
(set MEDIA_EDITION=%MEDIA_EDITION:IoTEnterprise=Enterprise%)
(set MEDIA_EDITION=%MEDIA_EDITION:EnterpriseS=Enterprise%)

::# get previous gui selection if self elevated and skip to choice
for %%0 in (*) do for %%P in (1 2 3 4) do if %%~n0 gtr 0 if %%~n0 lss 15 if %%~x0. equ .%%P. set/a
PRE=%%P& set/a MCT=%%~n0
if defined PRE if defined MCT goto choice-%%MCT%

::# write auto media preset hint
%<:f0 " Detected Media "%>>% & if defined MCT %<:5f " %VID% "%>>%
%<:6f " %MEDIA_LANGCODE% "%>>% & %<:9f " %MEDIA_EDITION% "%>>% & %<:2f " %MEDIA_ARCH% "%>%
%<:17 " ----- "%>%
%<:1f "1 Auto Upgrade : MCT gets Detected Media, script assists setupprep for upgrading "%>%
%<:1f "2 Make ISO : MCT gets Detected Media, script assists making ISO in Downloads "%>%
%<:1f "3 Make USB : MCT gets Detected Media, script assists making USB stick target "%>%
%<:1f "4 Select : MCT gets selected Edition, Language, Arch - on specified target "%>%
%<:1f "5 MCT Defaults : MCT runs unassisted making Selected Media without any overrides "%>%
%<:17 " ----- "%>%
%<:17 "1-4 adds to media: PID.txt, $OEM$ dir, auto.cmd & AutoUnattend.xml setup overrides "%>%
%<:17 " disable via DEF arg "%>%

::# show more responsive MCT + PRE pseudo-menu dialog or separate choice dialog instances if either MCT
or PRE are set
if "%MCT%%PRE%"==" " call :choices2 MCT "%VERSIONS%" %dV% "MCT Version" PRE "%PRESETS%" %dP% "MCT Preset"
11 white 0x005a9e 320

```

Last
update:
2023/03/09 windows_11_updater_that_ignores_tpm_and_secureboot https://wiki.alanwalker.uk/doku.php?id=windows_11_updater_that_ignores_tpm_and_secureboot
22:35

```
if %MCT%0 lss 1 if %PRE%0 gtr 1 call :choices MCT "%VERSIONS%" %dV% "MCT Version" 11 white 0x005a9e 320
if %MCT%0 gtr 1 if %PRE%0 lss 1 call :choices PRE "%PRESETS%" %dP% "MCT Preset" 11 white 0x005a9e 320
if %MCT%0 gtr 1 if %PRE%0 lss 1 goto choice-0 = cancel
goto choice-%MCT%
```

:choice-14

```
set "VER=22000" & set "VID=11" & set "CB=22000.258.211007-1642.co_release_svc_refresh" & set
"CT=2021/10/" & set "CC=2.0"
set
"CAB=download.microsoft.com/download/0/d/b/0db6dfde-48c9-4d70-904e-462b46d8a473/products_20211004.cab"
set
"CAB=download.microsoft.com/download/5/1/f/51fdeb9f-89b1-4a87-92cd-0ea73e290c5c/products_20211019.cab"
set "EXE=software-download.microsoft.com/download/pr/888969d5-f34g-4e03-
ac9d-1f9786c69161/MediaCreationToolW11.exe"
goto process ::# windows 11 : usability and ui downgrade, and even more ChrEdge bloat - release
```

:choice-13

```
set "VER=19044" & set "VID=21H2" & set "CB=19044.1165.210806-1742.21h2_release_svc_refresh" & set
"CT=2021/09/" & set "CC=1.4.1"
set
"CAB=download.microsoft.com/download/f/d/d/fddbe550-0dbf-44b4-9e60-6f0e73d654c0/products_20210415.cab"
set "EXE=download.microsoft.com/download/d/5/2/d528a4e0-03f3-452d-
a98e-3e479226d166/MediaCreationTool21H1.exe"
goto process ::# refreshed 19041 base with integrated 21H2 enablement package - pre-release
```

:choice-12

```
set "VER=19043" & set "VID=21H1" & set "CB=19043.928.210409-1212.21h1_release_svc_refresh" & set
"CT=2021/04/" & set "CC=1.4.1"
set
"CAB=download.microsoft.com/download/f/d/d/fddbe550-0dbf-44b4-9e60-6f0e73d654c0/products_20210415.cab"
set "EXE=download.microsoft.com/download/d/5/2/d528a4e0-03f3-452d-
a98e-3e479226d166/MediaCreationTool21H1.exe"
goto process ::# refreshed 19041 base with integrated 21H1 enablement package - current
```

:choice-11

```
set "VER=19042" & set "VID=20H2" & set "CB=19042.631.201119-0144.20h2_release_svc_refresh" & set
"CT=2020/11/" & set "CC=1.4.1"
if %INSERT_BUSINESS%0 gtr 1 set "CB=19042.1052.210606-1844.20h2_release_svc_refresh" & set "CT=2021/07/"
set "CAB=download.microsoft.com/download/4/3/0/430e9adb-cf08-4b68-9032-
eafca8378d42/products_20201119.cab"
set "EXE=download.microsoft.com/download/4/c/c/4cc6c15c-75a5-4d1b-
a3fe-140a5e09c9ff/MediaCreationTool20H2.exe"
goto process ::# refreshed 19041 base with integrated 20H2 enablement package to mainly bundle ChrEdge
```

:choice-10

```
set "VER=19041" & set "VID=20H1" & set "CB=19041.508.200907-0256.vb_release_svc_refresh" & set
"CT=2020/09/" & set "CC=1.4"
if %INSERT_BUSINESS%0 gtr 1 set "CB=19041.572.201009-1946.vb_release_svc_refresh" & set "CT=2020/11/"
set "CAB=download.microsoft.com/download/7/4/4/744ccd60-3203-4eea-bfa2-4d04e18a1552/products.cab"
set "EXE=software-download.microsoft.com/download/pr/8d71966f-05fd-4d64-900b-
f49135257fa5/MediaCreationTool2004.exe"
goto process ::# visible improvements to windows update, defender, search, dx12, wsl, sandbox
```

:choice-9

```
set "VER=18363" & set "VID=19H2" & set "CB=18363.592.200109-2016.19h2_release_svc_refresh" & set
"CT=2020/01/" & set "CC=1.3"
if %INSERT_BUSINESS%0 gtr 1 set "CB=18363.1139.201008-0514.19h2_release_svc_refresh" & set "CT=2020/11/"
set "CAB=download.microsoft.com/download/8/2/b/82b12fa5-
cab6-4d37-8167-16630c6151eb/products_20200116.cab"
set "EXE=download.microsoft.com/download/c/0/b/c0b2b254-54f1-42de-
bfe5-82effe499ee0/MediaCreationTool1909.exe"
goto process ::# refreshed 18362 base with integrated 19H2 enablement package to activate usability and
security fixes
```

:choice-8

```
set "VER=18362" & set "VID=19H1" & set "CB=18362.356.190909-1636.19h1_release_svc_refresh" & set
"CT=2019/09/" & set "CC=1.3"
set "CAB=download.microsoft.com/download/4/e/4/4e491657-24c8-4b7d-a8c2-
```

```
b7e4d28670db/products_20190912.cab"
set "EXE=download.microsoft.com/download/9/8/8/9886d5ac-8d7c-4570-a3af-
e887ce89cf65/MediaCreationTool1903.exe"
goto process ::# modern windows 10 starts here with proper memory allocation, cpu scheduling, security
features

:choice-7
set "VER=17763" & set "VID=1809" & set "CB=17763.379.190312-0539.rs5_release_svc_refresh" & set
"CT=2019/03/" & set "CC=1.3"
set "CAB=download.microsoft.com/download/8/E/8/8E852CBF-0BCC-454E-
BDF5-60443569617C/products_20190314.cab"
set "EXE=software-download.microsoft.com/download/pr/MediaCreationTool1809.exe"
goto process ::# rather mediocre considering it is the base for ltsc 2019; less smooth than 1803 in
games; intel pre-4th-gen buggy

:choice-6
set "VER=17134" & set "VID=1803" & set "CB=17134.112.180619-1212.rs4_release_svc_refresh" & set
"CT=2018/07/" & set "CC=1.2"
set
"CAB=download.microsoft.com/download/5/C/B/5CB83D2A-2D7E-4129-9AFE-353F8459AA8B/products_20180705.cab"
set "EXE=software-download.microsoft.com/download/pr/MediaCreationTool1803.exe"
goto process ::# update available to finally fix most standby memory issues that were present since
1703; intel pre-4th-gen buggy

:choice-5
set "VER=16299" & set "VID=1709" & set "CB=16299.125.171213-1220.rs3_release_svc_refresh" & set
"CT=2018/01/" & set "CC=1.1"
set "CAB=download.microsoft.com/download/3/2/3/323D0F94-95D2-47DE-
BB83-1D4AC3331190/products_20180105.cab"
set
"EXE=download.microsoft.com/download/A/B/E/ABEE70FE-7DE8-472A-8893-5F69947DE0B1/MediaCreationTool.exe"
goto process ::# plagued by standby and other memory allocation bugs, fullscreen optimisation issues,
worst windows 10 ver by far

:choice-4
set "VER=15063" & set "VID=1703" & set "CB=15063.0.170317-1834.rs2_release" & set "CT=2017/03/" & set
"CC=1.0"
if %INSERT_BUSINESS% gtr 1 set "CB=15063.0.170710-1358.rs2_release_svc_refresh" & set "CT=2017/07/"
rem set
"XML=download.microsoft.com/download/2/E/B/2EBE3F9E-46F6-4DB8-9C84-659F7CCEDED1/products20170727.xml"
rem above refreshed xml often fails decrypting dual x86 + x64 - using rtm instead; the added enterprise
+ cloud are refreshed
set "CAB=download.microsoft.com/download/9/5/4/954415FD-
D9D7-4E1F-8161-41B3A4E03D5E/products_20170317.cab"
set
"EXE=download.microsoft.com/download/1/F/E/1FE453BE-89E0-4B6D-8FF8-35B8FA35EC3F/MediaCreationTool.exe"
goto process ::# some gamers still find it the best despite unfixed memory allocation bugs and exposed
cpu flaws; can select Cloud

:choice-3
set "VER=14393" & set "VID=1607" & set "CB=14393.0.161119-1705.rs1_refresh" & set "CT=2017/01/" & set
"CC=1.0"
set
"CAB=wscont.apps.microsoft.com/winstore/OSUpgradeNotification/MediaCreationTool/prod/Products_20170116.c
ab"
set
"EXE=download.microsoft.com/download/C/F/9/CF9862F9-3D22-4811-99E7-68CE3327DAE6/MediaCreationTool.exe"
goto process ::# snappy and stable for legacy hardware

:choice-2
set "VER=10586" & set "VID=1511" & set "CB=10586.0.160426-1409.th2_refresh" & set "CT=2016/05/" & set
"CC=1.0"
set
"XML=wscont.apps.microsoft.com/winstore/OSUpgradeNotification/MediaCreationTool/prod/Products05242016.xm
l"
set "EXE=download.microsoft.com/download/1/C/4/1C41BC6B-F8AB-403B-B04E-
C96ED6047488/MediaCreationTool.exe"
rem 1511 MCT exe works and can select Education - using 1607 one instead anyway for unified products.xml
catalog 1.0 format
set
```

```
"EXE=download.microsoft.com/download/C/F/9/CF9862F9-3D22-4811-99E7-68CE3327DAE6/MediaCreationTool.exe"
goto process ::# most would rather go with 1507 or 1607 instead, with little effort can apply latest
ltsb updates on all editions

:choice-1
set "VER=10240" & set "VID=1507" & set "CB=10240.16393.150909-1450.th1_refresh" & set "CT=2015/09/" &
set "CC=1.0"
set
"XML=wscont.apps.microsoft.com/winstore/OSUpgradeNotification/MediaCreationTool/prod/Products09232015_2.
xml"
set "EXE=download.microsoft.com/download/1/C/8/1C8BAF5C-9B7E-44FB-A90A-
F58590B5DF7B/v2.0/MediaCreationToolx64.exe"
set "EXE32=download.microsoft.com/download/1/C/8/1C8BAF5C-9B7E-44FB-A90A-
F58590B5DF7B/v2.0/MediaCreationTool.exe"
if /i "%PROCESSOR_ARCHITECTURE%" equ "x86" if not defined PROCESSOR_ARCHITECTURE6432 set "EXE=%EXE32%"
rem 1507 MCT exe works but cant select Education - using 1607 one instead anyway for unified
products.xml catalog 1.0 format
set
"EXE=download.microsoft.com/download/C/F/9/CF9862F9-3D22-4811-99E7-68CE3327DAE6/MediaCreationTool.exe"
goto process ::# fastest for potato PCs

:choice- ;( something happened (broken environment/powershell?) and should cancel, but continue with
defaults instead
set MCT=%dv% & set PRE=%dP% & goto choice-%dV%

:choice-0
%<:0c " CANCELED "%> & timeout /t 3 >nul & exit/b

:start unified console appearance under 7 - 11
@echo off & title MCT & set __COMPAT_LAYER=Installer & chcp 437 >nul & set set=& for %0 in (*) do if /i
%0 equ set set set=1
if not defined set set/a BackClr=0x1 & set/a TextClr=0xf & set/a Columns=32 & set/a Lines=120 & set/a
Buff=9999
if not defined set set/a SColors=BackClr*16+TextClr & set/a WSize=Columns*256*256+Lines & set/a
BSize=Buff*256*256+Lines
if not defined set for %0 in ("HKCU\Console\MCT") do (
    reg add HKCU\Console /v ForceV2 /d 0x01 /t reg_dword /f & reg add %0 /v ScreenColors /d %SColors% /t
reg_dword /f
    reg add %0 /v ColorTable00 /d 0x000000 /t reg_dword /f & reg add %0 /v ColorTable08 /d 0x767676 /t
reg_dword /f
    reg add %0 /v ColorTable01 /d 0x9e5a00 /t reg_dword /f & reg add %0 /v ColorTable09 /d 0xff783b /t
reg_dword /f
    reg add %0 /v ColorTable02 /d 0x0ea113 /t reg_dword /f & reg add %0 /v ColorTable10 /d 0x0cc616 /t
reg_dword /f
    reg add %0 /v ColorTable03 /d 0xdd963a /t reg_dword /f & reg add %0 /v ColorTable11 /d 0xd6d661 /t
reg_dword /f
    reg add %0 /v ColorTable04 /d 0x1f0fc5 /t reg_dword /f & reg add %0 /v ColorTable12 /d 0x5648e7 /t
reg_dword /f
    reg add %0 /v ColorTable05 /d 0x981788 /t reg_dword /f & reg add %0 /v ColorTable13 /d 0x9e00b4 /t
reg_dword /f
    reg add %0 /v ColorTable06 /d 0x009cc1 /t reg_dword /f & reg add %0 /v ColorTable14 /d 0xa5f1f9 /t
reg_dword /f
    reg add %0 /v ColorTable07 /d 0xcccccc /t reg_dword /f & reg add %0 /v ColorTable15 /d 0xffffffff /t
reg_dword /f
    reg add %0 /v QuickEdit /d 0x0000 /t reg_dword /f & reg add %0 /v LineWrap /d 0 /t reg_dword /f
    reg add %0 /v LineSelection /d 0x0001 /t reg_dword /f & reg add %0 /v CtrlKeyShortcutsDisabled /d 0
/t reg_dword /f
    reg add %0 /v WindowSize /d %WSize% /t reg_dword /f & reg add %0 /v ScreenBufferSize /d %BSize% /t
reg_dword /f
    reg add %0 /v FontSize /d 0x00100008 /t reg_dword /f & reg add %0 /v FaceName /d "Consolas" /t
reg_sz /f ) >nul 2>nul
:## set path, fix name (x) and reload from Downloads folder
pushd "%~dp0" & set "S=%SystemRoot%" & set "nx0=%~nx0" & call set "nx0=%~nx0:)=]%" & call set
"nx0=%~nx0:([%"
set
"PATH=%S%\Sysnative;%S%\Sysnative\windowspowershell\v1.0\;%S%\System32;%S%\System32\windowspowershell\v1
.0\;%PATH%"
set "ROOT=%CD%" & set "0=%~f0" & if not defined set for /f delims^=^ eol^= %0 in (
```

```
"powershell -nop -c (new-object -ComObject Shell.Application).NameSpace('shell:Downloads').Self.Path")
do set "ROOT=%%"
(if "%~nx%" neq "%nx%" copy /y "%~nx%" "%nx%") & robocopy "%~dp0/" "%ROOT%/ " "%nx%" >nul
if not defined set start "MCT" cmd /d/x/rcall "%ROOT%\%nx%" %* set& exit
::# self-echo top 1-20 lines of script
<"~f0" (set/p \=&for /l %0 in (1,1,20) do set \=& set/p \=& call echo;%\%)
::# lean xp+ color macros by AveYo: %<:af " hello ">>% & %<:cf " w\or\ld ">% for single \ / "
use .%|\ .%|/ \%|\
for /f "delims=" %0 in ('echo;prompt $h$h$^|cmd/d') do set "|=%0" &set ">=\\.c nul &set/p
0=%0%0%0%0%0%0%0%0<nul&popd"
set "<=pushd "%public%"&2>nul findstr /c:\ /a" &set ">=>>&echo;" &set "|=%|:-0,1%" &set/p
0=<nul>"%public%\c"
::# (un)define main variables
for %0 in (":/") do set "htp=ht%= %tp%-0/" & set "hts=ht%= %tps%-0/" & rem ::# baffling pastebin
url filters..
for %0 in (OPTIONS NO_UPDATE NO_UNDO DEF PRE AUTO AKEY CREATE ISO EDITION KEY ARCH LANGCODE VID MCT XML
CAB EXE) do set "%0="
for %0 in (latest_MCT.url) do if not exist %0
(echo;[InternetShortcut]&echo;URL=%s%github.com/AveYo/MediaCreationTool.bat)>%0
goto Universal MCT
:-----
-----

:process
if %PRE% equ 1 (set "PRESET=Auto Upgrade" & set AUTO=1& set ISO=& set FIX=)
if %PRE% equ 2 (set "PRESET=Make ISO" & set AUTO=& set ISO=1)
if %PRE% equ 3 (set "PRESET=Make USB" & set AUTO=& set ISO=)
if %PRE% equ 4 (set "PRESET=Select" & set AUTO=& set ISO=& set EDITION=& set LANGCODE=& set
ARCH=& set KEY=)
if %PRE% equ 5 (set "PRESET=MCT Defaults" & set AUTO=& set ISO=& set EDITION=& set LANGCODE=& set
ARCH=& set KEY=)
if %PRE% equ 5 (goto noelevate) else set set=%MCT%.%PRE%

::# self elevate if needed for the custom presets to monitor setup progress, passing arguments and last
gui choices
fltmc>nul || (set _=start "MCT" cmd /d/x/rcall "%~f0" %* %set%& powershell -nop -c start -verb runas cmd
\"/d/x/r$env:_\"& exit)
:noelevate 'MCT Defaults' does not need it, script just quits straightaway

::# cleanup Downloads\MCT workfolder and stale mount files
mkdir "%ROOT%\MCT" >nul 2>nul & attrib -R -S -H %ROOT% /D & pushd "%ROOT%\MCT"
del /f /q products.* PID.txt auto.cmd AutoUnattend.xml >nul 2>nul
set/a latest=0 & if exist latest set/p latest=<latest
echo,20211008>latest & if %latest% lss 20211008 del /f /q products*. MediaCreationTool*.exe >nul 2>nul

::# edition fallback to ones that MCT supports - after selection
(set MEDIA_EDITION=%MEDIA_EDITION:Embedded=Enterprise%)
(set MEDIA_EDITION=%MEDIA_EDITION:IoTEnterprise=Enterprise%)
(set MEDIA_EDITION=%MEDIA_EDITION:EnterpriseS=Enterprise%)
if %PRE% geq 2 (set MEDIA_EDITION=%MEDIA_EDITION:ProfessionalWorkstation=Enterprise%)
if %PRE% geq 2 (set MEDIA_EDITION=%MEDIA_EDITION:ProfessionalEducation=Education%)
if %VER% leq 16299 (set MEDIA_EDITION=%MEDIA_EDITION:ProfessionalWorkstation=Enterprise%)
if %VER% leq 16299 (set MEDIA_EDITION=%MEDIA_EDITION:ProfessionalEducation=Education%)
if %VER% leq 10586 (set MEDIA_EDITION=%MEDIA_EDITION:Enterprise=Professional%)
if %VER% leq 15063 if %INSERT_BUSINESS%0 lss 1 (set
MEDIA_EDITION=%MEDIA_EDITION:Enterprise=Professional%)
if %VER% leq 10586 if %UNHIDE_BUSINESS%0 lss 1 (set
MEDIA_EDITION=%MEDIA_EDITION:Education=Professional%)
if %VER% neq 15063 (set MEDIA_EDITION=%MEDIA_EDITION:Cloud=Professional%)
if not defined EDITION if "%MEDIA_EDITION%" neq "%OS_EDITION%" set "EDITION=%MEDIA_EDITION%"

::# generic key preset - only for staged editions in MCT install.esd - see sources\product.ini
for %0 in (%MEDIA_EDITION%) do for %K in (
V3WVW-N2PV2-CGWC3-34QGF-VMJ2C.Cloud NH9J3-68WK7-6FB93-4K3DF-DJ4F6.CloudN
YTMG3-N6DKC-DKB77-7M9GH-8HVX7.Core 4CPRK-NM3K3-X6XXQ-RXX86-WXCHW.CoreN
BT79Q-G7N6G-PGBYW-4YWX6-6F4BT.CoreSingleLanguage N2434-
X9D7W-8PF6X-8DV9T-8TYMD.CoreCountrySpecific
VK7JG-NPHTM-C97JM-9MPGT-3V66T.Professional 2B87N-8KFHP-DKV6R-Y2C8J-PKCKT.ProfessionalN
8PTT6-RNW4C-6V7J2-C2D3X-MHBPB.ProfessionalEducation GJTYN-HDMQY-FRR76-HVGC7-
QPF8P.ProfessionalEducationN
```

```
DXG7C-N36C4-C4HTG-X4T3X-2YV77.ProfessionalWorkstation WYPNQ-8C467-V2W6J-TX4WX-
WT2RQ.ProfessionalWorkstationN
  YNMGQ-8RYV3-4PGQ3-C8XTP-7CFBY.Education 84NGF-MHBT6-FXBX8-QWJK7-DRR8H.EducationN
  NPPR9-FWDCX-D2C8J-H872K-2YT43.Enterprise DPH2V-TTNVB-4X9Q3-TJR4H-KHJW4.EnterpriseN
) do if /i %%~xK equ .%0 set MEDIA_EDITION=%%~xK& call set MEDIA_EDITION=%%MEDIA_EDITION:.=%%& set
"MEDIA_KEY=%%~nK"

:## detected / selected media preset
set "CONSUMER=%%MEDIA_EDITION:Enterprise=%"
if "%CONSUMER%" equ "%MEDIA_EDITION%" (set CFG=Consumer) else (set CFG=Business)
if not defined EDITION (set UNSTAGED=1& set STAGED=) else (set UNSTAGED=& set STAGED=%%MEDIA_EDITION%)
if defined STAGED (set MEDIA_CFG=%%STAGED%) else (set MEDIA_CFG=%%CFG%)
set MEDIA=& for %%0 in (%LANGCODE%%EDITION%%ARCH%%KEY%) do (set MEDIA=%%0)
if defined MEDIA for %%0 in (%MEDIA_LANGCODE%) do (set LANGCODE=%%0)
if defined MEDIA for %%0 in (%MEDIA_EDITION%) do (set EDITION=%%0)
if defined MEDIA for %%0 in (%MEDIA_ARCH%) do (set ARCH=%%0)
if defined MEDIA for %%0 in (%MEDIA_KEY%) do (if not defined KEY set KEY=%%MEDIA_KEY%)
:## windows 11 not available on x86
if %VER% geq 22000 (set MEDIA_ARCH=x64& if defined ARCH set ARCH=x64)

:## windows 11 vs 10 label quirks - guess I should not have combined them, but then again, 11 is 10 with
a ui downgrade ;)
if %VER% geq 22000 (set X=11& set VIS=21H2) else (set X=10& set VIS=%%VID%& set FIX=)

:## refresh screen
cls & <"~f0" (set/p \=&for /l %%0 in (1,1,20) do set \=& set/p \=& call echo;%%\%)

:## write target media label with lang / edition / arch only for first 3 presets
%<:f0 " Windows %X% Version "%>>% & %<:5f " %VIS% "%>>% & %<:f1 " %CB% "%>>%
if %PRE% leq 3 %<:6f " %MEDIA_LANGCODE% "%>>% & %<:9f " %MEDIA_CFG% "%>>% & %<:2f " %MEDIA_ARCH%
"%>>%
%<:11 ~%>% & echo;

:## download MCT and CAB / XML - now trying both secure and insecure
set "DL=function dl($f,$h,$u) {$w=new-object Net.WebClient; $w.Headers.Add('user-agent','iPad'); try
{$w.DownloadFile($h+$u,$f)}"
set "DL=%DL% catch [Net.WebException] {write-host '('; del $f -force -ea 0} finally {$w.Dispose()} } ;
dl"
set "/h=Check urls in browser | del MCT dir | use powershell v3.0+ | unblock powershell | enable BITS
serv"
if defined EXE echo;%EXE%
if not exist MediaCreationTool%VID%.exe powershell -nop -c "%DL% MediaCreationTool${env:VID}.exe
$env:hts $env:EXE" 2>nul
if not exist MediaCreationTool%VID%.exe powershell -nop -c "%DL% MediaCreationTool${env:VID}.exe
$env:http $env:EXE" 2>nul
if not exist MediaCreationTool%VID%.exe %<:1e " MediaCreationTool%VID%.exe download failed "%>%
if defined XML echo;%XML%
if defined XML if not exist products%VID%.xml powershell -nop -c "%DL% products${env:VID}.xml $env:hts
$env:XML" 2>nul
if defined XML if not exist products%VID%.xml powershell -nop -c "%DL% products${env:VID}.xml $env:http
$env:XML" 2>nul
if defined XML if not exist products%VID%.xml %<:1e " products%VID%.xml download failed "%>%
if defined XML if exist products%VID%.xml copy /y products%VID%.xml products.xml >nul 2>nul
if defined CAB echo;%CAB%
if defined CAB if not exist products%VID%.cab powershell -nop -c "%DL% products${env:VID}.cab $env:hts
$env:CAB" 2>nul
if defined CAB if not exist products%VID%.cab powershell -nop -c "%DL% products${env:VID}.cab $env:http
$env:CAB" 2>nul
if defined CAB if not exist products%VID%.cab %<:1e " products%VID%.cab download failed "%>%
if exist products%VID%.cab del /f /q products%VID%.xml 2>nul
if exist products%VID%.cab expand.exe -R products%VID%.cab -F:* . >nul 2>nul
echo; & set "err=" & for %%0 in (products.xml MediaCreationTool%VID%.exe) do if not exist %%0 set err=1
if defined err (%<:4f " ERROR "%>>% & %<:0f " %/h% "%>%) else if not defined err %<:0f " %PRESET%
"%>%
if defined err del /f /q products%VID%.* MediaCreationTool%VID%.exe 2>nul & pause & exit/b

:## configure products.xml in one go via powershell snippet - most of the MCT fixes happen there
call :PRODUCTS_XML
```

```

::# repack XML into CAB
makecab products.xml products.cab >nul

::# MCT authors untouched media with no preset options or added files, script quits straightway
::# =====
if "MCT Defaults" equ "%PRESET%" (start MediaCreationTool%VID%.exe /Selfhost& exit/b)

::# OR run script-assisted presets for auto upgrade without prompts / create iso directly / create usb
::# =====
if not defined MEDIA (set LANGCODE=%MEDIA_LANGCODE%& set EDITION=%MEDIA_EDITION%& set ARCH=%MEDIA_ARCH%)
if defined UNSTAGED (set KEY=) else if defined KEY set AKEY=/Pkey %KEY%

::# not using /MediaEdition option in MCT version 1703 and older - handled via CurrentVersion registry
workaround
if %VER% gtr 15063 (set MEDIA_SEL=/MediaLangCode %LANGCODE% /MediaEdition %EDITION% /MediaArch %ARCH%)
else (set MEDIA_SEL=)
if "Select" equ "%PRESET%" (set MEDIA_SEL=)

::# prevent usage of MCT for intermediary upgrade in Dynamic Update (causing 7 to 19H1 instead of 7 to
11 for example)
if %VER% gtr 15063 if not defined NO_UPDATE set UPDATE=%UPDATE% /UpdateMedia Decline

::# separate options for MCT and auto.cmd
set MOPTIONS=/Action CreateMedia %MEDIA_SEL% /UpdateMedia Decline %UNDO% %OPTIONS% /Pkey Defer
/SkipSummary /Eula Accept
set AOPTIONS=/Auto Upgrade /MigChoice Upgrade %UPDATE% %UNDO% %OPTIONS% %AKEY% /SkipSummary /Eula Accept
set MAKE_OPTIONS=/SelfHost& for %%s in (%MOPTIONS%) do call set MAKE_OPTIONS=%MAKE_OPTIONS%% %%s
set AUTO_OPTIONS=/SelfHost& for %%s in (%AOPTIONS%) do call set AUTO_OPTIONS=%AUTO_OPTIONS%% %%s

::# generate PID.txt to preset EDITION on boot media - MCT install.esd indexes only, ProWS/ProEdu only
via auto.cmd
for %%0 in (Workstation WorkstationN Education EducationN) do if "Professional%%0" equ "%EDITION%" set
"KEY="
if not defined PKEY if "Enterprise" equ "%EDITION%" set "KEY=" &rem explicitly remove generic PID.txt
for Enterprise
if not defined KEY (del /f /q PID.txt 2>nul) else (echo;[PID]& echo;Value=%KEY%&
echo;;Edition=%EDITION%)>PID.txt

::# generate auto.cmd for upgrading without prompts - also copied to media so it can be re-run on demand
set "0=%~f0"& powershell -nop -c "iex ([io.file]::ReadAllText($env:0)-split'[:]generate_auto_cmd')[1];"

::# generate AutoUnattend.xml for 11 Setup registry override of TPM / CPU / RAM / Storage / SecureBoot
checks
if %VER% geq 22000 set "0=%~f0"& powershell -nop -c "iex ([io.file]::ReadAllText($env:0)-
split'[:]generate_AutoUnattend_xml')[1];"

::# start script-assisted MCT via powershell (to monitor setup state and take necessary action)
set "0=%~f0"& start "MCT" /wait /b powershell -nop -c "iex ([io.file]::ReadAllText($env:0)-
split'[:]Assisted_MCT')[1];"

:-----
EXIT /BATCH DONE
:-----

:Assisted_MCT
#:: unreliable processing like pausing setuphost removed; enhanced output
$host.ui.rawui.windowtitle = "MCT $env:PRESET"; $ErrorActionPreference = 0
$DRIVE = [environment]::SystemDirectory[0]; $WD = $DRIVE+':\ESD'; $WS =
$DRIVE+':\$WINDOWS~WS\Sources'; $DIR = $WS+'\'Windows'
$ESD = $null; $USB = $null; $ISO = "$env:ROOT\$env:X $env:VIS $env:MEDIA_CFG $env:MEDIA_ARCH
$env:MEDIA_LANGCODE.iso"
if ('Auto Upgrade' -eq $env:PRESET) {$ISO = [io.path]::GetTempPath() + "~temporary.iso"} ; del $ISO -
force -ea 0 >'
cd -Lit("$env:ROOT\MCT")

#:: workaround for version 1703 and earlier not having media selection switches
$K = '"HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion"'
if ($env:VER -le 15063 -and $null -ne $env:EDITION) {

```

```
reg add $K /v EditionID /d $env:EDITION /reg:32 /f>' 2>'; reg delete $K /v ProductName /reg:32 /f>' 2>'
reg add $K /v EditionID /d $env:EDITION /reg:64 /f>' 2>'; reg delete $K /v ProductName /reg:64 /f>' 2>'
}

#:: setup file watcher to minimally track progress
function Watcher {
    $A = $args; $Exe = $A[0]; $File = $A[1]; $Dir = $A[2]; $Subdirs = @($false,$true)[ $A[3] -eq 'all' ]
    $P = mkdir $Dir -force -ea 0; if (!(test-path $P)) {return 1}; $W = new-object IO.FileSystemWatcher;
$W.Path = $P.FullName
    $W.Filter = $File; $W.IncludeSubdirectories = $Subdirs; $W.NotifyFilter = 125; $W.EnableRaisingEvents
= $true; $ret = 1
    while ($true) {
        try { $get = $W.WaitForChanged(15, 15000) } catch { mkdir $Dir -ea 0 >''; continue }
        if (-not $get.TimedOut) { write-host -fore Gray $get.ChangeType,$get.Name; $ret = 0;break} else {if
($Exe.HasExited) {break}}
    } ; $W.Dispose(); return $ret
}

#:: load ui automation library
$an =
'UIAutomationClientsideProviders','UIAutomationClient','UIAutomationTypes','System.Windows.Forms','Micro
soft.VisualBasic'
$ca = { [Windows.Automation.ClientSettings]::RegisterClientSideProviderAssembly($re[0].GetName()) }
$re = $an |% { [Reflection.Assembly]::LoadWithPartialName("$_") } ; try { & $ca } catch { & $ca }
$cp = [Windows.Automation.AutomationElement]::ClassNameProperty
$bt = "Button","ComboBox","Edit" |% {new-object Windows.Automation.PropertyCondition($cp, $_)}
new-item -path function: -name "Enter" -value { $app = get-process "SetupHost" -ea 0; if ($null -ne
$app)
{ [Microsoft.VisualBasic.Interaction]::AppActivate($app.Id) } ;
[Windows.Forms.SendKeys]::SendWait("{ENTER}") } >'
$id = 0; if ('Make USB' -ne $env:PRESET) {$id = 1}
$sw = "ShowWindowAsync"; $dm =
[AppDomain]::CurrentDomain."DefineDynamicAssembly"(1,1)."DefineDynamicModule"(1)
$dt = $dm."DefineType"("AveYo",1179913,[ValueType]); $ptr = (get-process -pid
$PID).MainWindowHandle.GetType()
$dt."DefinePInvokeMethod"($sw,"user`32",8214,1,[void],@($ptr,[int]),1,4) >''; $nt =
$dt."CreateType"()
new-item -path function: -name "ShowWindow" -value
{$nt."GetMethod"($sw).invoke(0,@($args[0],$args[1]))} >'

#:: start monitoring
:mct while ($true) {
    #:: launch MCT with /Selfhost /Action CreateMedia options and wait for main window
    $mct = start -passthru "MediaCreationTool${env:VID}.exe" $env:MAKE_OPTIONS; if ($null -eq $mct)
{break}
    while ($null -eq (get-process SetupHost -ea 0)) {if ($mct.HasExited) {break :mct}; sleep -m 200 }
    $set = get-process SetupHost -ea 0; if ($null -eq $set) {break}
    while ($set.MainWindowHandle -eq 0) { if ($mct.HasExited) {break :mct}; $set.Refresh(); sleep -m 200
}

    #:: using automation to click gui buttons directly due to UpgradeNow and CreateUpgradeMedia actions no
longer working in 11 MCT
    if ('Select' -ne $env:PRESET) { try {
        $win = [Windows.Automation.AutomationElement]::FromHandle($set.MainWindowHandle); $nr =
$win.FindAll(5, $bt[0]).Count
        if ($env:VER -le 15063) {while ($win.FindAll(5,$bt[1]).Count -lt 3) {if ($mct.HasExited) {break
:mct}; sleep -m 200}; Enter}
        while ($win.FindAll(5,$bt[0]).Count -le $nr) {if ($mct.HasExited) {break :mct}; sleep -m 200}; $all
= $win.FindAll(5,$bt[0])
        $all[$id].GetCurrentPattern([Windows.Automation.SelectionItemPattern]::Pattern).Select();$all[$all.Count
-1].SetFocus(); Enter
        if ('Make USB' -ne $env:PRESET) {
            while ($win.FindAll(5,$bt[2]).Count -le 0) {if ($mct.HasExited) {break :mct};sleep -m 50}; $val =
$win.FindAll(5,$bt[2])[0]
            $val.GetCurrentPattern([Windows.Automation.ValuePattern]::Pattern).SetValue($ISO); $all =
$win.FindAll(5, $bt[0])
```

```

        ($all |? {$_.Current.AutomationId -eq 1}).SetFocus(); Enter # sendkeys Enter - due to unreliable
InvokePattern click()
    }
    } catch {} }
    #:: if DEF parameter used, quit without adding $OEM$, pid.txt, auto.cmd, AutoUnattend.xml (disable 11
setup checks) to media
    if ($null -ne $env:DEF -and 'Auto Upgrade' -ne $env:PRESET) {break}

    #:: get target $ISO or $USB from setup state file
    $ready = $false; $task = "PreDownload"; $action = "GetWebSetupUserInput"
    while (-not $ready) {
        [xml]$xml = get-content "$WS\Panther\windlp.state.xml"
        foreach ($t in $xml.WINDLP.TASK) { if ($t.Name -eq $task) { foreach ($a in $t.ACTION) { if
($a.ActionName -eq $action) {
            if ($null -ne $a.DownloadUrlX86) {$ESD = $a.DownloadUrlX86}
            if ($null -ne $a.DownloadUrlX64) {$ESD = $a.DownloadUrlX64}
            if ($null -ne $a.TargetISO) {$ISO = $a.TargetISO; $ready = $true}
            $u = $a.TargetUsbDrive; if ($null -ne $u -and $u -gt 0) {$USB = [char][Convert]::ToInt32($u, 16);
$ready = $true}
        }}} ; if ($mct.HasExited) {break :mct}; sleep -m 1000
    }
    if ('Auto Upgrade' -ne $env:PRESET -and $null -eq $USB) {write-host -fore Gray "MakeISO", $ISO}
    if ('Auto Upgrade' -ne $env:PRESET -and $null -ne $USB) {write-host -fore Gray "MakeUSB", $USB}
    $label = $ESD.Split('-')[2].Split('.')[1] + '-' + $ESD.Split('-')[1].Split('.')[0]
    write-host -fore Gray "FromESD", $label; sleep 7; powershell -win $env:hide -nop -c ";
    #:: watch setup files progress from the sideline (MCT has authoring control)
    write-host -fore Yellow "Started Downloading Windows $env:X "; Watcher $mct "*.esd" $WD all >'; if
($mct.HasExited) {break}
    write-host -fore Yellow "Started Creating Windows $env:X media"; Watcher $mct "*.wim" $WS all >'; if
($mct.HasExited) {break}
    #:: then add to media $OEM$, PID.txt, auto.cmd, AutoUnattend.xml (for 11 Setup registry overrides) -
disable via DEF arg
    if ($null -eq $env:DEF) {
        pushd -lit "$env:ROOT"
        foreach ($P in "$DIR\x86\sources", "$DIR\x64\sources", "$DIR\sources") {
            if (($null -ne $env:DEF) -or !(test-path "$P\setupprep.exe")) {continue}
            $f1 = '$OEM$'; if (test-path -lit $f1) {xcopy /CYBERHIQ $f1 "$P\$f1" >'; write-host -fore Gray
AddFile $f1}
            $f2 = "MCT\PID.txt"; if (test-path $f2) {copy -path $f2 -dest $P -force >'; write-host -fore
Gray AddFile $f2}
            $f3 = "MCT\auto.cmd"; if (test-path $f3) {copy -path $f3 -dest $DIR -force >'; write-host -fore
Gray AddFile $f3}
            $f4 = "MCT\AutoUnattend.xml"; if (test-path $f4) {copy -path $f4 -dest $DIR -force >'; write-
host -fore Gray AddFile $f4}
        }
        popd
    }
    write-host -fore Gray "Prepare install.esd"
    #:: end monitoring early if preset does not require it
    if ('Auto Upgrade' -ne $env:PRESET -and $null -eq $env:FIX) {break}

    #:: watch sources layout progress
    Watcher $mct "ws.dat" "$DIR\sources" >'; if ($mct.HasExited) {break}
    $set = get-process SetupHost -ea 0; $global:handle = $set.MainWindowHandle
    $ready = $false; $task = "MediaCreate"; $action = "IsoLayout"; if ($null -ne $USB) {$action =
"UsbLayout"}
    while (-not $ready) {
        [xml]$xml = get-content "$WS\Panther\windlp.state.xml"
        foreach ($t in $xml.WINDLP.TASK) { if ($t.Name -eq $task) { foreach ($a in $t.ACTION) { if
($a.ActionName -eq $action) {
            if ($null -ne $a.ProgressCurrent -and 0 -ne $a.ProgressCurrent) {ShowWindow $handle 0; $ready =
$true}
        }}} ; if ($mct.HasExited) {break :mct}; sleep -m 10000
    }
    write-host -fore Gray "Prepare", $action

    #:: watch usb layout progress if using FIX arg and target is $USB
    if ($null -ne $env:FIX -and $null -ne $USB) {

        $ready = $false; $task = "MediaCreate"; $action = "UsbLayout"
    }

```

```
while (-not $ready) {
    [xml]$xml = get-content "$WS\Panther\windlp.state.xml"
    foreach ($t in $xml.WINDLP.TASK) { if ($t.Name -eq $task) { foreach ($a in $t.ACTION) { if
($a.ActionName -eq $action) {
        $total = $a.ProgressTotal; $current = $a.ProgressCurrent
        if ($null -ne $total -and 0 -ne $total -and $total -eq $current) {$ready = $true}
        }}} ; if ($mct.HasExited) {break :mct}; sleep -m 5000
    }
    write-host -fore Gray "Refresh", $action
}
#:: kill MCT process early if preset requires it
if ('Auto Upgrade' -eq $env:PRESET -or $null -ne $env:FIX) {
    $mct.Kill(); $set = get-process SetupHost -ea 0; if ($set) {$set.Kill()}
    sleep 3; dism /cleanup-wim >''; del $ISO -force -ea 0 >'
}
#:: end monitoring
break :mct
}

#:: undo workaround for version 1703 and earlier not having media selection switches
if ($env:VER -le 15063 -and $null -ne $env:EDITION) {
    $K = '"HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion"'
    reg add $K /v EditionID /d $env:OS_EDITION /reg:32 /f>' 2>'; reg add $K /v ProductName /d
$env:OS_PRODUCT /reg:32 /f>' 2>'
    reg add $K /v EditionID /d $env:OS_EDITION /reg:64 /f>' 2>'; reg add $K /v ProductName /d
$env:OS_PRODUCT /reg:64 /f>' 2>'
}

#:: if opted to disable boot.wim 11 setup checks via FIX arg
if ($null -ne $env:FIX -and (test-path "$DIR\sources\boot.wim")) {
    write-host -fore Yellow "Disable boot.wim 11 setup checks"
    rmdir "$WD\MOUNT" -re -force -ea 0; mkdir "$WD\MOUNT" -force -ea 0 >'; $winsetup =
"$WD\MOUNT\sources\winsetup.dll"
    dism.exe /mount-wim /wimfile:"$DIR\sources\boot.wim" /index:2 /mountdir:"$WD\MOUNT"; write-host
takeown.exe /f $winsetup /a >'; icacls.exe $winsetup /grant *S-1-5-32-544:f; attrib -R -S -H
$winsetup; $patch = '/commit'
    try {[io.file]::OpenWrite($winsetup).close()} catch {$patch = '/discard'}
    if ($patch -eq '/commit') { #:: an original setup override by AveYo to use when registry overrides
fail (VirtualBox 5.x)
        $b = [io.file]::ReadAllBytes($winsetup); $h = [BitConverter]::ToString($b) -replace '-'
        $s = [BitConverter]::ToString([Text.Encoding]::Unicode.GetBytes('Module_Init_HWRequirements')) -
replace '-'
        $i = ($h.IndexOf($s)/2); $r = [Text.Encoding]::Unicode.GetBytes('Module_Init_GatherDiskInfo'); $l =
$r.Length
        if ($i -gt 1) {for ($k=0;$k -lt $l;$k++) {$b[$i+$k] = $r[$k]};
[io.file]::WriteAllBytes($winsetup,$b)}; [GC]::Collect()
    }
    dism.exe /unmount-wim /mountdir:"$WD\MOUNT" $patch; rmdir "$WD\MOUNT" -re -force -ea 0; write-host
if ($null -ne $USB) {
    write-host -fore Yellow "Refresh USB $USB"
    #:: if target is $USB, refresh boot.wim from sources
    replace "$DIR\sources\boot.wim" "${USB}:\sources" /r /u
} else {
    write-host -fore Yellow "MakeISO"
    #:: if target is $ISO, load snippet then call DIR2ISO DIR ISO LABEL
    iex ([io.file]::ReadAllText($env:0) -split '#\:DIR2ISO\: ',3)[1]
    DIR2ISO $DIR $ISO $LABEL
}
    rmdir $DIR -re -force -ea 0
}

#:: Auto Upgrade preset starts auto.cmd from $DIR = C:\$WINDOWS.~WS\Sources\Windows
if ('Auto Upgrade' -eq $env:PRESET) {
    cd -Lit("$env:ROOT\MCT"); start -nonewwindow cmd "/d/x/rcall auto.cmd $DIR"
}

write-host -fore yellow -back green " DONE "; sleep 7
#:: done #:Assisted_MCT
```

```

:-----
:-----

:generate_auto_cmd $text = @"
@title Auto Upgrade without prompts + change edition support & set args=%1& color 1f& echo off
set OPTIONS=$env:AUTO_OPTIONS`r`n`r`n
"@ + @"
if defined args (pushd %args%) else pushd "%~dp0"
for %%i in ("x86\" "x64\" "") do if exist "%~isources\setupprep.exe" set "dir=%%~i"
pushd "%dir%sources" || (echo "%dir%sources" & timeout /t 5 & exit/b)

:## elevate so that workarounds can be set
fltmc>nul || (set _="%~f0" %*& powershell -nop -c start -verb runas cmd "/d/x/rcall $env:_\"& exit/b)

:## No 11 Setup Checks on Dynamic Update
call :no_11_setup_checks_on_dynamic_update

:## current version query
set NT="HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion"
for /f "tokens=2*" %%R in ('reg query %NT% /v EditionID /reg:64 2^>nul') do set "EditionID=%%S"
for /f "tokens=2*" %%R in ('reg query %NT% /v ProductName /reg:64 2^>nul') do set "ProductName=%%S"
for /f "tokens=2*" %%R in ('reg query %NT% /v CurrentBuildNumber /reg:64 2^>nul') do set "Build=%%S"

:## media selection from PID.txt - get it verbosely in case auto.cmd is reused without
MediaCreationTool.bat
set Value=& set Edition=& if exist PID.txt for /f "delims=" %%v in (PID.txt) do (set %%v)2>nul
if defined Value for %%K in (
    Cloud.V3VWV-N2PV2-CGWC3-34QGf-VMJ2C          CloudN.NH9J3-68WK7-6FB93-4K3DF-DJ4F6
    Core.YTMG3-N6DKC-DKB77-7M9GH-8HVX7           CoreN.4CPRK-NM3K3-X6XXQ-RXX86-WXCHW
    CoreSingleLanguage.BT79Q-G7N6G-PGBYW-4YWX6-6F4BT CoreCountrySpecific.N2434-
X9D7W-8PF6X-8DV9T-8TYMD
    Professional.VK7JG-NPHTM-C97JM-9MPGT-3V66T    ProfessionalN.2B87N-8KFHP-DKV6R-Y2C8J-PKCKT
    ProfessionalEducation.8PTT6-RNW4C-6V7J2-C2D3X-MHBPB ProfessionalEducationN.GJTYN-HDMQY-FRR76-HVGC7-
QPF8P
    ProfessionalWorkstation.DXG7C-N36C4-C4HTG-X4T3X-2YV77 ProfessionalWorkstationN.WYPNQ-8C467-V2W6J-
TX4WX-WT2RQ
    Education.YNMGQ-8RYV3-4PGQ3-C8XTP-7CFBY       EducationN.84NGF-MHBT6-FXBX8-QWJK7-DRR8H
    Enterprise.NPPR9-FWDCX-D2C8J-H872K-2YT43       EnterpriseN.DPH2V-TTNVB-4X9Q3-TJR4H-KHJW4
) do if /i %%~xK equ .%Value% (set Edition=%%~nK)
if defined Edition if /i "%Edition%" neq "%EditionID%" call :rename %Edition% & goto setup force edition
if selected

:## auto upgrade with edition lie workaround to keep files and apps - all 1904x builds allow
up/downgrade between them
if not exist ei.cfg (set vol=0) else (set vol=1)
if /i "Embedded" == "%EditionID%" if %vol% == 1 (call :rename Enterprise) else (call :rename
Professional)
if /i "IoTEnterpriseS" == "%EditionID%" if %vol% == 1 (call :rename Enterprise) else (call :rename
Professional)
if /i "EnterpriseS" == "%EditionID%" if %vol% == 1 (call :rename Enterprise) else (call :rename
Professional)
if /i "EnterpriseSN" == "%EditionID%" if %vol% == 1 (call :rename EnterpriseN) else (call :rename
ProfessionalN)
if /i "IoTEnterprise" == "%EditionID%" if %vol% == 0 (call :rename Professional)
if /i "Enterprise" == "%EditionID%" if %vol% == 0 (call :rename Professional)
if /i "EnterpriseN" == "%EditionID%" if %vol% == 0 (call :rename ProfessionalN)
if /i "CoreCountrySpecific" == "%EditionID%" if %vol% == 1 (call :rename Professional)
if /i "CoreSingleLanguage" == "%EditionID%" if %vol% == 1 (call :rename Professional)
if /i "Core" == "%EditionID%" if %vol% == 1 (call :rename Professional)
if /i "CoreN" == "%EditionID%" if %vol% == 1 (call :rename ProfessionalN)
if /i "Ultimate" == "%EditionID%" (call :rename Professional)
if /i "" == "%EditionID%" (call :rename Professional)

:setup
start "auto" setupprep.exe %OPTIONS%
exit/b

:rename EditionID
set NT="HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion"
(reg query %NT% /v ProductName_undo /reg:32 || reg add %NT% /v ProductName_undo /d "%ProductName%" /f

```

```
/reg:32
reg query %NT% /v ProductName_undo /reg:64 || reg add %NT% /v ProductName_undo /d "%ProductName%" /f
/reg:64
reg query %NT% /v EditionID_undo /reg:32 || reg add %NT% /v EditionID_undo /d "%EditionID%" /f
/reg:32
reg query %NT% /v EditionID_undo /reg:64 || reg add %NT% /v EditionID_undo /d "%EditionID%" /f
/reg:64
reg delete %NT% /v ProductName /f /reg:32 & reg add %NT% /v EditionID /d "%~1" /f /reg:32
reg delete %NT% /v ProductName /f /reg:64 & reg add %NT% /v EditionID /d "%~1" /f /reg:64
) >nul 2>nul &exit/b

:no_11_setup_checks_on_dynamic_update - also available as standalone toggle script in the MCT folder
set "0=%~f0"& powershell -nop -c "iex ([io.file]::ReadAllText($env:0)-split'#[:]skip[:]tpm.*')[1];"
&exit/b #:skip:tpm
$3 = @(); $I = gi -force 'setupprep.exe' -ea 0; if ($I.VersionInfo.FileBuildPart -lt 22000) {return}
#:: abort if not 11 media
$3+= ' ' Skip TPM Check on Dynamic Update (c) AveYo 2021 : v3 IFE0-based with no flashing cmd window'
$3+= 'C = "cmd /q AveYo /d/x/r erase /f/s/q %systemdrive%\$windows.\bt\appraiserres.dll&"'
$3+= 'M = "md 11&cd 11&ren vd.exe vdsldr.exe &robocopy ""./"" ""./"" ""vdsldr.exe""&ren vdsldr.exe
vd.exe&"'
$3+= 'D = "start vd.exe -Embedding" : CreateObject("WScript.Shell").Run C & M & D, 0, False'
$V = "wscript 11.vbs //B //T:5"; $S = [environment]::SystemDirectory
$K = 'HKLM:\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Image File Execution Options\vdsldr.exe'
ni $K -force -ea 0 >'; sp $K 'Debugger' $V -force -ea 0; [io.file]::WriteAllText("$S\11.vbs", $3-
join`r`n")
sp 'HKLM:\SYSTEM\Setup\MoSetup' 'AllowUpgradesWithUnsupportedTPMOrCPU' 1 -type dword -force -ea 0 >'
#:: #:skip:tpm

'@; [io.file]::WriteAllText('auto.cmd', $text) #:generate_auto_cmd
:-----
-----

:generate_AutoUnattend_xml $text = '@'
<?xml version="1.0" encoding="utf-8"?>
<!--
#:: AutoUnattend.xml for 11 Setup overrides of TPM / CPU / RAM / Storage / SecureBoot checks
#:: this is the least clumsy deployment method for clean installs on unsupported devices since it does
not need boot.wim editing
#:: original idea by someone in the russian community (kudos to you), likely inspired by Microsofts
SurfaceDeploymentAccelerator
#:: shared by mydigitallife fellow member mdl052020, tweaked implementation by AveYo
#:: IMPORTANT it wont help with old versions of VirtualBox (v5.x for Win7 host support) or really skewed
/ blacklisted hardware
#:: in that case rename MCT script: "fix MediaCreationTool.bat" to auto-remove all boot.wim checks, or
use Setup_Boot_fix.cmd
-->
<unattend xmlns="urn:schemas-microsoft-com:unattend">
  <settings pass="windowsPE"><component name="Microsoft-Windows-Setup" processorArchitecture="amd64"
language="neutral"
  xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    publicKeyToken="31bf3856ad364e35" versionScope="nonSxS">
    <UserData><ProductKey><Key></Key></ProductKey></UserData>
    <RunSynchronous><RunSynchronousCommand wcm:action="add"><Order>1</Order>
    <Description> Allow 11 Clean Install at Boot from USB or DVD </Description><Path>
cmd /c for %X in (sCPU sRAM sSecureBoot sStorage sTPM) do reg add HKLM\SYSTEM\Setup\LabConfig /v
Bypass%XCheck /d 1 /t reg_dword /f
    </Path></RunSynchronousCommand></RunSynchronous></component></settings>

  <settings pass="specialize"><component name="Microsoft-Windows-Deployment"
processorArchitecture="amd64" language="neutral"
  xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    publicKeyToken="31bf3856ad364e35" versionScope="nonSxS">
    <RunSynchronous><RunSynchronousCommand wcm:action="add"><Order>1</Order>
    <Description> Allow 11 Upgrade if having TPM 1.2 </Description>
    <Path>cmd /c reg add HKLM\SYSTEM\Setup\MoSetup /v AllowUpgradesWithUnsupportedTPMOrCPU /d 1 /t
reg_dword /f</Path>
```

```

</RunSynchronousCommand></RunSynchronous></component></settings>
<settings pass="oobeSystem"><component name="Microsoft-Windows-Shell-Setup"
processorArchitecture="amd64" language="neutral"
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State"
xmlns: xsi="http://www.w3.org/2001/XMLSchema-instance"
publicKeyToken="31bf3856ad364e35" versionScope="nonSxS">
<OOBE><HideOnlineAccountScreens>true</HideOnlineAccountScreens><HideLocalAccountScreen>false</HideLocalAccountScreen>
<!-- Allow local account creation on Home editions; set privacy-friendly OOBE choices -->
<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE><ProtectYourPC>3</ProtectYourPC></OOBE></component>
</settings>
</unattend>

'@; [io.file]::WriteAllText('AutoUnattend.xml', $text) #:generate_AutoUnattend_xml
:-----
-----

:reg_query [USAGE] call :reg_query "HKCU\Volatile Environment" Value variable
(for /f "tokens=2*" %%R in ('reg query "%~1" /v "%~2" /se ", " 2^nul') do set "%~3=%%S")& exit/b
:-----
-----

#:DIR2ISO:# [PARAMS] "directory" "file.iso" [optional]"label"
set ^ #=$f0=[io.file]::ReadAllText($env:0); $0=($f0-split '#\:DIR2ISO\: ' ,3)[1]; $1=$env:1-
replace('[@$]','`$1'; iex($0+$1)
set ^ #=& set "0=%~f0"& set 1=;DIR2ISO %*& powershell -nop -c "%#%"& exit/b %errorcode%
function DIR2ISO ($dir,$iso,$label='DVD_ROM') {if (!(test-path -Path $dir -pathtype Container)) {"[ERR]
$dir"; return 1}; $code=@
using System; using System.IO; using System.Runtime.InteropServices; using
System.Runtime.InteropServices.ComTypes;
public class dir2iso {public int AveYo=2021;
[DllImport("shlwapi", CharSet=CharSet.Unicode, PreserveSig=false)]
internal static extern void SHCreateStreamOnFileEx(string f, uint m, uint d, bool b, IStream r, out IStream
s);
public static int Create(string file, ref object obj, int bs, int tb) { IStream dir=(IStream)obj, iso;
try {SHCreateStreamOnFileEx(file, 0x1001, 0x80, true, null, out iso);} catch (Exception e)
{Console.WriteLine(e.Message); return 1;}
int d=tb>1024 ? 1024 : 1, pad=tb%d, block=bs*d, total=(tb-pad)/d, c=total>100 ? total/100 : total, i=1,
MB=(bs/1024)*tb/1024;
Console.Write("{0,2}% {1}MB {2} DIR2ISO", 0, MB, file); if (pad > 0) dir.CopyTo(iso, pad * block,
Int`Ptr.Zero, Int`Ptr.Zero);
while (total-- > 0) {dir.CopyTo(iso, block, Int`Ptr.Zero, Int`Ptr.Zero); if (total % c == 0)
{Console.Write("\r{0,2}%", i++);}
iso.Commit(0); Console.WriteLine("\r{0,2}% {1}MB {2} DIR2ISO", 100, MB, file); return 0;} }
"@; & { $cs = new-object CodeDom.Compiler.CompilerParameters; $cs.GenerateInMemory = 1 #: ` used to
silence ps eventlog
$compile = (new-object Microsoft.CSharp.CSharpCodeProvider).CompileAssemblyFromSource($cs, $code)
$BOOT = @(); $bootable = 0; $mbr_efi = @(0, 0xEF); $images =
@('boot\etfsboot.com', 'efi\microsoft\boot\efisys.bin') #: _noprompt
0, 1}% { $bootimage = join-path $dir -child $images[$_]; if (test-path -Path $bootimage -pathtype Leaf)
{
$bin = new-object -ComObject ADODB.Stream; $bin.Open(); $bin.Type = 1; $bin.LoadFromFile($bootimage)
$opt = new-object -ComObject IMAPI2FS.BootOptions; $opt.AssignBootImage($bin.psobject.BaseObject);
$opt.PlatformId = $mbr_efi[$_]
$opt.Emulation = 0; $bootable = 1; $opt.Manufacturer = 'Microsoft'; $BOOT += $opt.psobject.BaseObject }
}
$fsi = new-object -ComObject IMAPI2FS.MsftFileSystemImage; $fsi.FileSystemsToCreate = 4;
$fsi.FreeMediaBlocks = 0
if ($bootable) {$fsi.BootImageOptionsArray = $BOOT}; $TREE = $fsi.Root; $TREE.AddTree($dir, $false);
$fsi.VolumeName = $label
$obj = $fsi.CreateResultImage(); $ret =
[dir2iso]::Create($iso, [ref]$obj.ImageStream, $obj.BlockSize, $obj.TotalBlocks) }
[GC]::Collect(); return $ret
} #:DIR2ISO:# export directory as (bootable) udf iso - lean and mean snippet by AveYo, 2021
:-----
-----

#:CHOICES:# [PARAMS] indexvar "c,h,o,i,c,e,s" [OPTIONAL] default-index "title" fontsize bgcolor
forecolor winsize
set ^ #=$f0=[io.file]::ReadAllText($env:0); $0=($f0-split '#\:CHOICES\: ' ,3)[1]; $1=$env:1-

```

```
replace'([\`@\$])','\`$1'; iex($0+$1)
set ^ #=&set "0=%~f0"& set 1=;CHOICES %*& (for /f %x in ('powershell -nop -c "%#%"') do set "%1=%x")&
exit/b
function CHOICES
($index,$choices,$def=1,$title='Choices',[int]$sz=12,$bc='MidnightBlue',$fc='Snow',[string]$win='300') {
[void][Reflection.Assembly]::LoadWithPartialName('System.Windows.Forms'); $f=new-object
Windows.Forms.Form; $global:ret=''
$bt=@(); $i=1; $ch=($choices+',Cancel').split(','); $ch |foreach {$b=New-Object Windows.Forms.Button;
$b.Font='Tahoma','+$sz
$b.Name=$i; $b.Text=$_; $b.Margin='0,0,9,9'; $b.Location='9,'+($sz*3*$i-$sz);
$b.MinimumSize=$win+',18'; $b.AutoSize=1
$b.add_GotFocus({$this.BackColor=$fc; $this.ForeColor=$bc}); $b.add_LostFocus({$this.BackColor=$bc;
$this.ForeColor=$fc})
$b.FlatStyle=0; $b.Cursor='Hand'; $b.add_Click({$global:ret=$this.Name;$f.Close()});
$f.Controls.Add($b); $bt+=$b; $i++}
$f.Text=$title; $f.BackColor=$bc; $f.ForeColor=$fc; $f.StartPosition=4; $f.AutoSize=1;
$f.AutoSizeMode=0; $f.MaximizeBox=0
$f.AcceptButton=$bt[$def-1]; $f.CancelButton=$bt[-1]; $f.Add_Shown({$f.Activate();$bt[$def-1].focus()})
$f.ShowDialog() >'; $index=$global:ret; if ($index -eq $ch.length) {return 0} else {return $index}
} #:CHOICES:# gui dialog with inverted focus returning selected index - lean and mean snippet by AveYo,
2018 - 2021
:-----
-----

# :CHOICES2:# [INTERNAL]
set ^ #=$f0=[io.file]::ReadAllText($env:0); $0=($f0-split '#\:CHOICES2\:',' ,3')[1]; $1=$env:1-
replace'([\`@\$])','\`$1'; iex($0+$1)
set ^ #=&set "0=%~f0"&set 1=;CHOICES2 %*&(for /f "tokens=1,2" %x in ('powershell -nop -c "%#%"') do set
%1=%x&set %5=%y)&exit/b
function CHOICES2 {iex($f0-split '#\:CHOICES2\:',' ,3')[1]; function :LOOP { $a=$args
$c1 = @($a[0], $a[1], $a[2], $a[3], $a[-4], $a[-3], $a[-2], $a[-1]); $r1= CHOICES @c1; if ($r1 -lt 1)
{return "0 0"}
$a_7_ = $a[1].Split(',')[$r1-1] + ' ' + $a[7] #: use 1st dialog result in the title for 2nd dialog
$c2 = @($a[4], $a[5], $a[6], $a_7_, $a[-4], $a[-3], $a[-2], $a[-1]); $r2= CHOICES @c2; if ($r2 -ge 1)
{return "$r1 $r2"}
if ($r2 -lt 1) {$a[2]=$r1; :LOOP @a} }; :LOOP @args #: index1 choices1 def1 title1 index2 choices2
def2 title2 font bc tc win
} #:CHOICES2:# MediaCreationTool.bat gui pseudo-menu via CHOICES snippet, streamlined in a single
powershell instance
:-----
-----

# :PRODUCTS_XML:# [INTERNAL] refactored with less looping over Files; addressed more powershell 2.0
quirks
set ^ #=$f0=[io.file]::ReadAllText($env:0); $0=($f0-split '#\:PRODUCTS_XML\:',' ,3')[1]; $1=$env:1-
replace'([\`@\$])','\`$1'; iex($0+$1)
set ^ #=& set "0=%~f0"& set 1=;PRODUCTS_XML %*& powershell -nop -c "%#%"& exit/bat/ps1
function PRODUCTS_XML { [xml]$xml = [io.file]::ReadAllText("$pwd\products.xml",[Text.Encoding]::UTF8);
$root = $null
$eulas = 0; $langs = 0; $ver = $env:VER; $vid = $env:VID; $X = $env:X; if ($X-eq'11') {$vid = "11
$env:VIS"}
$url = $env:http + "fg.ds.bl.download.windowsupdate.com/"
#:: apply/insert Catalog version attribute for MCT compatibility
if ($null -ne $xml.SelectSingleNode('/MCT')) {
$xml.MCT.Catalogs.Catalog.version = $env:CC; $root =
$xml.SelectSingleNode('/MCT/Catalogs/Catalog/PublishedMedia')
} else {
$temp = [xml]('<?xml version="1.0" encoding="UTF-8"?><MCT><Catalogs><Catalog version="' + $env:CC +
'"/></Catalogs></MCT>')
$temp.SelectSingleNode('/MCT/Catalogs/Catalog').AppendChild($temp.ImportNode($xml.PublishedMedia,$true))
>'
$xml = $temp; $root = $xml.SelectSingleNode('/MCT/Catalogs/Catalog/PublishedMedia')
}
foreach ($l in $root.ChildNodes) {if ($l.LocalName -eq 'EULAS') {$eulas = 1}; if ($l.LocalName -eq
'Languages') {$langs = 1} }
#:: apply/insert EULA url fix to prevent MCT timing out while downloading it (likely TLS issue under
naked Windows 7 host)
$eula = $env:https + "download.microsoft.com/download/C/0/3/C036B882-9F99-4BC9-
```

```

A4B5-69370C4E17E9/EULA_MCTool_"
if ($eulas -eq 1) { foreach ($i in $root.EULAS.EULA) {$i.URL = $eula +
$i.LanguageCode.ToUpperInvariant() + '_6.27.16.rtf'} }
if ($eulas -eq 0) {
$tmp = [xml]('<EULA><LanguageCode><URL/></EULA>'); $el = $xml.CreateElement('EULAS'); $node =
$xml.ImportNode($tmp.EULA,$true)
foreach ($lang in ($root.Languages.Language |where {$_.LanguageCode -ne 'default'})) {
$i = $el.AppendChild($node.Clone()); $lc = $lang.LanguageCode
$i.LanguageCode = $lc; $i.URL = $eula + $lc.ToUpperInvariant() + '_6.27.16.rtf'
}
$root.AppendChild($el) >' '
}
#:: friendlier version + combined consumer editions label (not doing it for business too here as it
would be ignored by mct)
if ($langs -eq 1) {
if ($ver -gt 15063) {$CONSUMER = "$vid Home | Pro | Edu"} else {$CONSUMER = "$vid Home | Pro"} #::
1511
foreach ($i in $root.Languages.Language) {
foreach ($l in $i.ChildNodes) {$l.InnerText = $l.InnerText.replace("Windows 10", $vid) }
if ($null -ne $i.CLIENT) {$i.CLIENT = "$CONSUMER"} ; if ($null -ne $i.CLIENT_K)
{$i.CLIENT_K = "$CONSUMER K"}
if ($null -ne $i.CLIENT_N) {$i.CLIENT_N = "$CONSUMER N"} ; if ($null -ne $i.CLIENT_KN)
{$i.CLIENT_KN = "$CONSUMER KN"}
}
}
$BUSINESS = "$vid Enterprise | Pro vl | Edu vl"
$root.Files.File | & { process {
$_arch = $_.Architecture; $_lang = $_.LanguageCode; $_edi = $_.Edition; $_loc = $_.Edition_Loc; $ok =
$true
#:: clear ARM64 and %BASE_CHINA% entries to simplify processing - TODO: ARM support
if ($_arch -eq 'ARM64' -or ($ver -lt 22000 -and $_loc -eq '%BASE_CHINA%'))
{$root.Files.RemoveChild($_) >' '; return}
#:: unhide combined business editions in xml that include them: 1709 - 21H1; unhide Education on 1507
- 1511; better label
if ($env:UNHIDE_BUSINESS -ge 1) {
if ($_edi -eq 'Enterprise' -or $_edi -eq 'EnterpriseN') {$_.IsRetailOnly = 'False'; $_.Edition_Loc
= $BUSINESS}
if ($ver -le 15063 -and ($_edi -eq 'Education' -or $_edi -eq 'EducationN')) {$_.IsRetailOnly =
'False'} #:: 1511
}
}}
$lines = ([io.file]::ReadAllText($env:0)-split':PS_INSERT_BUSINESS_CSV\:') [1]; $insert = $false
if ($null -ne $lines -and $env:INSERT_BUSINESS -ge 1 -and 19044,19042,19041,18363,15063,14393 -contains
$ver) {
$csv = ConvertFrom-CSV -Input $lines.replace('sr-rs','sr-latn-rs') | & { process { if ($_.Ver -eq
$ver) {$$_} } }
$edi =
@{ent='Enterprise';enN='EnterpriseN';edu='Education';edN='EducationN';clo='Cloud';clN='CloudN';
pro='Professional';prN='ProfessionalN'}
$insert = $true
}
#:: insert individual business editions in xml that never included them: 1607, 1703
if ($insert -and $ver -le 15063) {
foreach ($e in 'ent','enN','pro','prN','edu','edN','clo','clN') {
$item = $csv | & { process { if ($_.Client -eq $e) {$$_} } } | group Lang -AsHashTable -AsString
if ($null -eq $item) {continue}
$ccli = '_CLIENT' + $edi[$e]; $sup = '/upgr/'; if ($ver -eq 14393 -and $e -like 'en*') {$sup =
'/updt/' } #:: .ToUpper()
if ($e -like 'cl*') {$ccli += '_RET_'} elseif ($e -like 'p*') {$ccli += 'VL_VOL_'} else {$ccli +=
'_VOL_'}
if ($e -like 'cl*') {$BUSINESS = $edi[$e] -replace 'Cloud','S'} else {$BUSINESS = $edi[$e] -
creplace 'N',' N'}
$root.Files.File | & { process { if ($_.Edition -eq "Education") {
$_arch = $_.Architecture; $_lang = $_.LanguageCode; $item = $items[$_lang]; if ($null -eq $item)
{return}
if ($arch -eq 'x64') {$_size = $item[0].Size_x64; $_shal = $item[0].Shal_x64; $_dir =
$item[0].Dir_x64}
elseif ($arch -eq 'x86') {$_size = $item[0].Size_x86; $_shal = $item[0].Shal_x86; $_dir =
$item[0].Dir_x86}
$c = $_.Clone(); if ($c.HasAttribute('id')) {$c.RemoveAttribute('id')} $c.IsRetailOnly = 'False';

```

```
$c.Edition = $edi[$e]
    $name = $env:CB + $cli + $arch + 'FRE_' + $lang; $c.Edition_Loc = "$vid $BUSINESS"
    $c.FileName = $name + '.esd'; $c.Size = $_size; $c.Sha1 = $_sha1
    $c.FilePath = $url + $_dir + $up + $env:CT + $name.ToLowerInvariant() + '_' + $_sha1 + '.esd'
    $root.Files.AppendChild($c) >'
    }
}
}
#:: update existing FilePath entries for 1909, 2004, 2008 and insert entries for 21H2 and 11
if ($insert -and $ver -gt 15063) {
    $items = $csv |group Client,Lang -AsHashTable -AsString
    if ($null -ne $items) {
        $root.Files.File | & { process {
            $cli = '_CLIENTCONSUMER_'; $chan = 'ret'; $edition = $_.Edition
            if ($edition -eq 'Enterprise' -or $edition -eq 'EnterpriseN') {$cli = '_CLIENTBUSINESS_'; $chan =
'vol'}
            $arch = $_.Architecture; $lang = $_.LanguageCode; $item = $items["$chan, $lang"]; if ($null -eq
$item) {return}
            if ($arch -eq 'x64')      {$_size = $item[0].Size_x64; $_sha1 = $item[0].Sha1_x64; $_dir =
$item[0].Dir_x64}
            elseif ($arch -eq 'x86') {$_size = $item[0].Size_x86; $_sha1 = $item[0].Sha1_x86; $_dir =
$item[0].Dir_x86}
            if ('' -eq $_size) {$root.Files.RemoveChild($_) >''; return}
            $name = $env:CB + $cli + $chan.ToUpperInvariant() + '_' + $arch + 'FRE_' + $_.LanguageCode
            $_.FileName = $name + '.esd'; $_.Size = $_size; $_.Sha1 = $_sha1
            $_.FilePath = $url + $_dir + '/upgr/' + $env:CT + $name.ToLowerInvariant() + '_' + $_sha1 +
'.esd'
        }}
    }
}
#:: clone Professional / Enterprise to work around MCT quirks when host OS is ProEdu / ProWS /
EnterpriseS / Embedded
$clone = 'Embedded','IoTEnterpriseS','EnterpriseS'; $cloneN = 'EnterpriseSN'
if ($ver -le 16299) {$clone += 'ProfessionalEducation','ProfessionalWorkstation'}; if ($ver -le 10586)
{$clone += 'Enterprise'}
if ($ver -le 16299) {$cloneN += 'ProfessionalEducationN','ProfessionalWorkstationN'}; if ($ver -le 10586)
{$cloneN += 'EnterpriseN'}
if ($env:UNHIDE_BUSINESS -ge 1) {
    $root.Files.File | & { process {
        if ($_.Edition -eq "Enterprise") {
            foreach ($s in $clone) {
                $c = $_.Clone(); if ($c.HasAttribute('id')) {$c.RemoveAttribute('id')}
                $c.IsRetailOnly='False'; $c.Edition=$s; $root.Files.AppendChild($c) >'
            }
        }
        elseif ($_.Edition -eq "EnterpriseN") {
            foreach ($s in $cloneN) {
                $c = $_.Clone(); if ($c.HasAttribute('id')) {$c.RemoveAttribute('id')}
                $c.IsRetailOnly='False'; $c.Edition=$s; $root.Files.AppendChild($c) >'
            }
        }
    }}
}
$xml.Save("$pwd\products.xml");
} #:PRODUCTS_XML:# MediaCreationTool.bat configuring products.xml in one go
:-----
:--

:## Insert business esd links in 1607,1703; Update 1909,2004,20H2,21H2,11 by hand until an updated
products.xml from microsoft
:## Following are condensed ver,edition,lang,sizes,hashes,dirs to be recomposed into full official ESD
links for MCT
:## I have chosen to generate them on-the-fly here instead of linking to third-party hosted pre-edited
products.xml
:## Can skip copy-pasting some or all entries if not interested in updating the esd links for specific
versions
:## [Dev] ESD name has all except size; can get it with (Invoke-WebRequest -Uri $url -Method
Head).Headers['Content-Length']
:PS_INSERT_BUSINESS_CSV=_,Ver,Client,Lang,Size_x64,Size_x86,Sha1_x64,Sha1_x86,Dir_x64,Dir_x86
```

:# ,14393 ,enN ,bg -
bg ,2773448902 ,2111500580 ,d090ecc0e32e05a6c075eb8384f577315ac35ee2 ,f2206f926561fd89b69d6e7e61aa98956966df
d6 ,c ,c
:# ,14393 ,enN ,cs -
cz ,2775734726 ,2113434488 ,3979b107d1af43aae3cc79bd7a2a081def5d04cf ,e773288e71f7a17ec8e1525415134acbf a13a8
03 ,d ,d
:# ,14393 ,enN ,da -
dk ,2799132592 ,2137434148 ,f0a667d9584f10c47b3db96b0e6700f1a47021c3 ,9defa59a1627b3440684ce9605a43a0c4e88c7
70 ,d ,d
:# ,14393 ,enN ,de -
de ,2888504080 ,2219030252 ,e8a1023f0f21a7c99d1b5006ef520323238833cd ,e62e766faffcd25ebce37b758aeac6e63208c3
32 ,d ,d
:# ,14393 ,enN ,el -
gr ,2798418934 ,2123659240 ,8bd00622321661b9ca1eb7289d907a9056c713ce ,880756cb261c7a7b32289e549011d9bb968d27
06 ,d ,d
:# ,14393 ,enN ,en -
gb ,2861883002 ,2200050658 ,f145a8eff3121dc8fb020c5a1750a0f2c117ecb3 ,7c3415af341630a1f01f2f0983e44579d6a234
87 ,d ,d
:# ,14393 ,enN ,en -
us ,2859877184 ,2201813278 ,fab646ab44b5d956a91e0d2aa0e4a37f22ddf7cd ,5166cb73561f9c1190f9d6f8a35fe444877318
f9 ,c ,c
:# ,14393 ,enN ,es -
es ,2848523494 ,2196489320 ,7386e7b352e080a15f6a565feeace4c6e854703d ,191a58383195e53864fcacb41313043a5ea776
63 ,d ,d
:# ,14393 ,enN ,et -
ee ,2748248864 ,2095947306 ,b487809fa9f137624e4bb205e389f0e599d17093 ,d9f88ee10c3f41e5e152b24c78a35ab1f15d6a
f4 ,d ,d
:# ,14393 ,enN ,fi -
fi ,2796624854 ,2137783028 ,dc40703bd5eca75ce2d234e367f23db5a71c807f ,d3ed9db8b398eda4497c6b9d897555f5a5663d
84 ,c ,c
:# ,14393 ,enN ,fr -
fr ,2852055774 ,2193600366 ,5838ee4f277ebd8ab33f3d40bbcc380a95f9e69b ,36286ca54f121ca1247e1026e0c76bf3fdc4f2
be ,c ,c
:# ,14393 ,enN ,hr -
hr ,2765426784 ,2100724714 ,f8d5c52045248839329634468038b184b7e9a491 ,742c2541073a78be847cbe684651b7fcab6b6f
db ,c ,c
:# ,14393 ,enN ,hu -
hu ,2780468248 ,2122154560 ,65b67804be6e6a5e66f0046a8c779fc9599b571e ,444ac3b15980f3ef4f911fa2f920891e230118
ca ,d ,d
:# ,14393 ,enN ,it -
it ,2798572882 ,2144445692 ,162bbba0399ed2e0cc12569676f4afcc685f08a0 ,f4deb16739ba26ec597725cc5a9a2580b33e7c
a2 ,d ,d
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lt ,2755834506 ,2094863630 ,11c047008667638f72cfa7391b0ac14ce954a427 ,0a1d7d1bd8456251c623d5c3f3e7e6f0a9c00e
86 ,d ,d
:# ,14393 ,enN ,lv -
lv ,2752316336 ,2093716546 ,230ac84bf1c669d375fd05159a8d26edb87cf264 ,98948912070a686f3b7060b9f80446faba677b
2d ,d ,d
:# ,14393 ,enN ,nb -
no ,2773039326 ,2113695528 ,7939fcefabeeed9a8cebf6ca04984e9c0f8470f50 ,ba8c7be3fb2a12ae3a227ac60b69ce225f3679
33 ,c ,c
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nl ,2775118184 ,2130921230 ,fbb84419e1b8618b83b91873ed5cc7fa1365a009 ,40d9d1a599a5266947f337fa6acfc ae eece8a8
65 ,c ,c
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pl ,2778912686 ,2125591884 ,7ea026557e632da890a64e0fcf72f3672ef12e53 ,487eab83f1e6f67058b50b9a889d790f493845
67 ,d ,d
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pt ,2787935254 ,2125017148 ,0afce496d59bbfc1f1c6580dfb49bf0ca1e30275 ,40a28c0263920c0e13a1c450511718f61f2c67
e1 ,d ,d
:# ,14393 ,enN ,ro -
ro ,2763055438 ,2101442992 ,d88e0b470995cc081f9e73d06baf0ce6080445c9 ,5452de2544692ba234c744cb18676f1cbc3c7c
3c ,d ,d
:# ,14393 ,enN ,sk -
sk ,2763328164 ,2096292986 ,be661b5d237a8a93259d64754b09ae29f26cb42b ,6322ebdfa ea5955e28ec0edba5595e6ecc3eab
ba ,c ,c
:# ,14393 ,enN ,sl -
si ,2754008752 ,2096786702 ,73a4a166b1eedff7c7465eed4ce3daa8eec1c051 ,882e91a3c1e7a239ac4d39288c19228b8ba20c
8d ,c ,c
:# ,14393 ,enN ,sv -

se,2799778090,2130127248,70e0831a0c4078705b6699e8662d6cb0dc4875a0,66c58033888d81d9e914463d941a525ef1f1c2
9b,d,d
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sa,2955820350,2253811598,672bb229c831b84e95a6dbff94818528894540d3,c6daaa38f3eb589e8654a266320032ed3aa3a6
f5,d,d
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bg,2911551848,2218360574,97d613cdfb2ded4df2f71ef29fc93ca3656c6ed8,2c0063b9f769ba2307f84717ac2b915206a9d4
a3,d,d
: :#,14393,ent,cs-
cz,2918785956,2214354874,7542eab92328937b8d09ee02cf8fa9cc6a196830,3108854bb25b7c75bac13289db5c2a2e9c9205
78,d,d
: :#,14393,ent,da-
dk,2946222420,2240352350,bb9da04cd47d7973597386ffd203ed56e19d4d65,297f5fb65fa79f3ed1d0a6dcad202d863b71e9
bc,c,c
: :#,14393,ent,de-
de,3019388686,2321843034,c9b01f8eceb84ea2e7abf8c8823a623d759a61d0,8af78913db117260a888d57c5376470cfc1096
70,d,d
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7a,d,d
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gb,3002224046,2305860070,b972022ec65c9205195833b842983e527f287d0a,6d0466628b39e192bd675fae1dfaafded7fff94
d9,d,d
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dc,c,c
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28,c,c
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d2,c,c
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ce,d,d
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44,d,d
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b6,d,d
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39,c,c
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f3,d,d

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86,c,c
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66,d,d
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fi,3059882946,2342513800,d9c35e5ba0889424e10bd1391f482270b3c40853,70e4f643e220a70547bc75cafd358e5c247a918d,d,d
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fr,3130815842,2428304540,34e9d32c32d40b6fa1bffb9d5e43b7ee52ccc8a4,61eaf46743223466e066c77c0563ad46501378d5,d,d
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: :#,15063,enN,hu-
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