MICROSOFT WINDOWS 11 22H2

封装教程:不同的系统版本,有着不同的封装方式,封装过程中包含: "语言包:添加、关联、删除"、"驱动:添加、删除"、"累积更新:添加、删除"、"InBox Apps:添加、更新、标记"等。

在这背后藏着很多的隐藏故事, 想解开这些, 你准备好开始尝试封装了吗?

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章节1 部署映像

A. 先决条件

II ISO 工具

准备一款可编辑 ISO 文件的软件,例如: PowerISO、DAEMON Tools、ISO Workshop;

Ⅲ 要求

1. 系统安装包

关键词: 迭代、跨版本、大版本、累积更新、初始版本

1.1. 说明

- 1.1.1. 每版本更新时请重新制作镜像,例如从 21H1 跨越到 22H2 时,应避免出现其它兼容性问题请勿在旧镜像基础上制作;
- 1.1.2. 该条例已经在某些 OEM 厂商,通过各种形式向封装师明确传达了该法令,不允许直接从迭代版本里直接升级;
- 1.1.3. 制作中请使用"初始版本"、"开发者版"制作。微软官方文档里曾短暂的出现过在制作中必须使用初始版本,后来这句在官方文档里却被删除了;
- 1.1.4. 安装语言包后,必须重新添加累积更新(可同一版本号),不添加累积更新会出现"乱码"、"界面闪退"等问题。
- 1.1.5. 进化过程:Windows 11 22H2, Build 22261.382 + KB5027303 = OS Build 22621.1928

1.2. 准备下载初始版本或开发者版本

- **1.2.1.** en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso
- 1.2.2. en-us_windows_11_consumer_editions_version_22h2_x64_dvd_e630fafd.iso
- 1.2.3. en-us_windows_11_iot_enterprise_version_22h2_arm64_dvd_f09f5d29.iso
- **1.2.4.** en-us_windows_11_iot_enterprise_version_22h2_x64_dvd_eb39bf70.iso
- 1.3. 示例下载 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso 后,解压到: D:\enus_windows_11_business_editions_version_22h2_x64_dvd_17a08c
- 1.4. 解压完成后,将目录 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c 更改为 D:\OS_11
- 1.5. 所有脚本、所有路径,已默认设置为 D:\OS_11 为映像来源。
- 1.6. 安装配置
 - 1.6.1. 学习: Windows 安装版配置和产品 ID 文件 (El.cfg 和 PID.txt)

1.6.2. 已知问题

- 1.6.2.1. 没有 Ei.cfg 时,ISO 引导安装,选择某些版本时会报错,提示: Windows 找不到 Microsoft 软件许可条款。请确保安装源有效。然后重新启动安装。
- 1.6.2.2. 如何解决,添加 ei.cfg 到 D:\OS_11\Sources 里,创建 ei.cfg:

@"

[Channel]

volume

[VL]

1

"@ | Out-File -FilePath "D:\OS_11\sources\EI.CFG" -Encoding Ascii

1.7. 报告

查看映像包里已安装:语言包、已关联的语言包组件、预安装 InBox Apps 应用程序等详细信息,下载报告后,使用 Excel 软件打开 .xlsx。

1.7.1. 报告: 总览

包含: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件等。

Report.Overview.xlsx

1.7.2. 报告:完整

包容: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件、已安装 InBox Apps 预安装应用程序等。

en-us、ar-sa、bg-bg、cs-cz、da-dk、de-de、el-gr、en-gb、es-es、es-mx、et-ee、fi-fi、fr-ca、fr-fr、he-il、hr-hr、hu-hu、it-it、ja-jp、ko-kr、lt-lt、lv-lv、nb-no、nl-nl、pl-pl、pt-br、pt-pt、ro-ro、ru-ru、sk-sk、sl-si、sr-latn-rs、sv-se、th-th、tr-tr、uk-ua、zh-cn、zh-tw

2. 语言包

2.1. 学习

阅读时,请了解"蓝色"重要突出部分。

- 2.1.1. 语言概述
- 2.1.2. 将语言添加到 Windows 11 映像



2.1.3. 语言和区域按需功能 (FOD)

2.1.3.1. 字体

- 添加语言包时,触发了对应的区域时,需添加所需的字体功能,下载"所有可用语言 FOD 的列表"了解更多。
- 在"语言包:提取"时,已加入自动识别功能,可了解函数:Function Match_Required_Fonts

2.1.3.2. 区域关联

区域关联是什么?

映像语言仅英文版时,添加 zh-HK 语言包后,映像语言不会新增,应先安装 zh-TW 后,再安装 zh-HK 即可获得对应的关联。

已知区域关联:

- 2.1.3.2.1. 区域: ar-sa, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.1.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.1.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.2. 区域: bg-bg, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.2.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.2.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.3. 区域: da-dk, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.3.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.3.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.4. 区域: el-gr, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.4.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.4.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab



- 2.1.3.2.5. 区域: fr-ca, 可选关联区域: en-US、fr-fr, 关联安装包:
 - 2.1.3.2.5.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.3. Microsoft-Windows-LanguageFeatures-Basic-fr-fr-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.4. Microsoft-Windows-LanguageFeatures-Handwriting-fi-fi-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.6. 区域: he-il, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.6.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.6.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.7. 区域: ru-ru, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.7.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.7.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.8. 区域: th-th, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.8.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.8.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.9. 区域: uk-ua, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.9.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.9.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.10. 区域: zh-TW, 可选关联区域: zh-HK, 关联安装包:
 - 2.1.3.2.10.1. Microsoft-Windows-LanguageFeatures-Basic-zh-hk-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.10.2. Microsoft-Windows-LanguageFeatures-Speech-zh-hk-Package~31bf3856ad364e35~amd64~~.cab



2.1.3.3. 其它区域特定的要求

触发已知区域时,需添加特定的"程序包"。

2.1.3.3.1. 区域: zh-TW, 程序包: Microsoft-Windows-InternationalFeatures-Taiwan-Package~31bf3856ad364e35~amd64~~.cab

说明:对台湾日期格式设置要求的补充支持。将为位于台湾的客户提供包。

建议: 仅在运送到台湾市场的设备上预安装。 未在设备上安装此功能会导致对使用台湾日历的任何 API 调用失败。

存在争议:

- 查看"报告: Windows 11 23H2" 脱机映像语言列表,并未发现有此程序包;
- 在建议项里有已知问题,到底是遵循与微软官方原版一致,由封装师自由选择安装与否。

2.2. 语言包: 下载

 $https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso$

- 2.3. 语言包: 修复
 - 2.3.1. 任选一个网站并打开:
 - 2.3.1.1. https://uupdump.net
 - 2.3.1.2. https://uup.ee
 - 2.3.1.3. https://osdump.com
 - 2.3.2. 打开后,搜索关键词:22621.382,在搜索结果选择:Windows 11, version 22H2 (22621.382) amd64
 - 2.3.3. 打开后,选择"全部文件";
 - 2.3.4. 在"全部文件"页面里依次搜索绿色部分并下载:
 - 2.3.4.1. 适用于: Install.wim (1项)
 - 2.3.4.1.1. MediaPlayer
 - 2.3.4.2. 适用于: WinRE.wim, 暂无

- 2.3.4.3. 适用于: Boot.wim, 暂无
- 2.3.5. 下载所有文件后,拉动到页面下方,下载并运行"生成重命名脚本 (Windows)";
- 2.3.6. 使用 ISO 编辑软件,编辑 22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso,将下载的文件添加到 [ISO]:\LanguagesAndOptionalFeatures 目录里;
- 3. InBox Apps
 - 3.1. 下载: https://software-static.download.prss.microsoft.com/dbazure/888969d5-f34g-4e03-ac9d-1f9786c66749/22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso
 - 3.2. 下载: https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 后,提取:
 - 3.2.1. Microsoft.HEVCVideoExtension
 - 3.2.1.1. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.appx
 - 3.2.1.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.xml
 - 3.2.1.3. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx
 - 3.2.1.4. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml
 - 3.3. 使用 ISO 编辑工具,编辑 22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso,将已提取文件添加到 [ISO]:\packages 目录里;
- IV Windows 安全中心
 - 在处理封装任务时,将产生大量的临时文件,安装 InBox Apps 里的应用时会释放大量的安装文件;
 - 开启 Windows 安全中心会扫描文件、会占用大量的 CPU。
 - 测试中:未关闭前耗时 1 小时 22 分,关闭后耗时 20 分钟。

如何关闭:

绿色为命令行,按住 Windows 键并按 R 键启动 "运行"。

- 1. 打开 "Windows 安全中心" 或运行: windowsdefender:
- 2. 选择"病毒和威胁防护"或运行: windowsdefender://threat
- 3. 找到"病毒和威胁防护设置",点击"管理设置"或运行: windowsdefender://threatsettings, 建议您关闭部分功能:
 - 3.1. 实时保护
 - 3.2. 云提供的保护

- 3.3. 自动提交样本
- 3.4. 篡改防护
- 4. 未处于封装时,建议您开启 Windows 安全中心。

V 命令行

- 1. 可选"Terminal "或"PowerShell ISE",未安装"Terminal",请前往 https://github.com/microsoft/terminal/releases 后下载;
- 2. 以管理员身份打开"Terminal"或"PowerShell ISE",设置 PowerShell 执行策略:绕过,PS 命令行:

Set-ExecutionPolicy - ExecutionPolicy Bypass - Force

- 3. 在本文中,绿色部分属于 PS 命令行,请复制后,粘贴到"Terminal"对话框,按回车键(Enter)后开始运行;
- 4. 有 .ps1 时,点击文件右键,选择以 PowerShell 运行,或复制路径,粘贴到"Terminal "或"PowerShell ISE"里运行。

B. 语言包: 提取

Ⅱ 语言包:准备

挂载 22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso 或解压到任意位置;

- Ⅲ 语言包: 提取方案
 - 1. 添加
 - 1.1. 语言名称:简体中文-中国,区域: zh-CN,适用范围: Install.Wim, Boot.Wim, WinRE.Wim
 - 2. 删除
 - 2.1. 语言名称: 英语 美国, 区域: en-US, 适用范围: Install.Wim, Boot.Wim, WinRE.Wim

IV 执行提取命令

- Auto = 自动搜索本地所有磁盘, 默认;
- 自定义路径,例如指定为 E 盘: \$ISO = "E:\"
- Extract.ps1
 - o \Expand\Extract.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Extract.ps1
- 复制代码



```
$ISO = "Auto"
$SaveTo = "D:\OS_11_Custom"
$Extract_language_Pack = @(
       @ \{ Tag = "zh-CN"; Act = "Add"; Scope = @ ( "Install \ "; "Install \ WinRE"; "Boot \ Boot" ) \} \\
      @{ Tag = "en-US"; Act = "Del"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }
Function Extract_Language
      param( $Act, $NewLang, $Expand )
      Function Match_Required_Fonts
            param($Lang)
             $Fonts = @(
                   @{ Match = @("as", "ar-SA", "ar", "ar-AE", "ar-BH", "ar-DJ", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-IQ", "ar-KM", "ar-KW", "ar-LB", "ar-LB", "ar-DZ", "ar-ER", "ar-ER", "ar-IL", "ar-IQ", "ar-I
LY", "ar-MA", "ar-MR", "ar-OM", "ar-PS", "ar-QA", "ar-SD", "ar-SO", "ar-SS", "ar-SY", "ar-TD", "ar-TN", "ar-YE", "arz-Arab", "ckb-Arab", "fa", "fa-
AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab", "ks-Arab-IN", "ku-Arab", "ku-Arab-IQ", "mzn-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs",
"prs-AF", "prs-Arab", "ps", "ps-AF", "sd-Arab", "sd-Arab-PK", "tk-Arab", "ug", "ug-Arab", "ug-CN", "ur", "ur-IN", "ur-PK", "uz-Arab", "uz-Arab-AF");
Name = "Arab"; }
                   @{ Match = @("bn-IN", "as-IN", "bn", "bn-BD", "bpy-Beng"); Name = "Beng"; }
                   @{ Match = @("da-dk", "iu-Cans", "iu-Cans-CA"); Name = "Cans"; }
                   @{ Match = @("chr-Cher-US", "chr-Cher"); Name = "Cher"; }
                   @{ Match = @("hi-IN", "bh-Deva", "brx", "brx-Deva", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne", "ne-IN", "ne-NP", "new-Deva", "pi-
Deva", "sa", "sa-Deva", "sa-IN"); Name = "Deva"; }
                    @{ Match = @("am", "am-ET", "byn", "byn-ER", "byn-Ethi", "ti-ER", "ti-ER", "tig-ER", "tig-ER", "tig-Ethi", "ve-Ethi", "wal", "wal-ET", "wal-ET", "wal-ET", "tig-ER", "
Ethi"); Name = "Ethi"; }
                    @{ Match = @("gu", "gu-IN"); Name = "Gujr"; }
                   @{ Match = @("pa", "pa-IN", "pa-Guru"); Name = "Guru"; }
                    @{ Match = @("zh-CN", "cmn-Hans", "gan-Hans", "hak-Hans", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-hak-Hans",
SG", "zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }
                    @{ Match = @("zh-TW", "cmn-Hant", "lzh-Hant", "zh-hak-Hant", "zh-hak-Hant", "zh-HK", "zh-lzh-Hant", "zh-MO", "zh-yue-Hant");
Name = "Hant"; }
                    @{ Match = @("he", "he-IL", "yi"); Name = "Hebr"; }
                    @{ Match = @("ja", "ja-JP"); Name = "Jpan"; }
                    @{ Match = @("km", "km-KH"); Name = "Khmr"; }
                    @{ Match = @("kn", "kn-IN"); Name = "Knda"; }
                    @{ Match = @("ko", "ko-KR"); Name = "Kore"; }
                    @{ Match = @("de-de", "lo", "lo-LA"); Name = "Laoo"; }
                   @{ Match = @("ml", "ml-IN"); Name = "Mlym"; }
```

```
@{ Match = @("or", "or-IN"); Name = "Orya"; }
          @{ Match = @("si", "si-LK"); Name = "Sinh"; }
          @{ Match = @("tr-tr", "arc-Syrc", "syr", "syr-SY", "syr-Syrc"); Name = "Syrc"; }
          @{ Match = @("ta", "ta-IN", "ta-LK", "ta-MY", "ta-SG"); Name = "Taml"; }
          @{ Match = @("te", "te-IN"); Name = "Telu"; }
          @{ Match = @("th", "th-TH"); Name = "Thai"; }
     ForEach ($item in $Fonts) {
          if (($item.Match) -Contains $Lang) {
               return $item.Name
    return "Not_matched"
Function Match_Other_Region_Specific_Requirements
    param($Lang)
     $RegionSpecific = @(
          @{ Match = @("zh-TW"); Name = "Taiwan"; }
    ForEach ($item in $RegionSpecific) {
         if (($item.Match) -Contains $Lang) {
               return $item.Name
    return "Skip_specific_packages"
Function Extract Process
     param( $Package, $Name, $NewSaveTo )
     \ensuremath{$\text{NewSaveTo}}\ = "$($SaveTo)\$($NewSaveTo)\Language\$($Act)\$($NewLang)"
     {\tt New-Item-Path\ \$NewSaveTo\ -ItemType\ Directory\ -ErrorAction\ Silently Continue\ |\ Out-Null\ -ErrorAction\ 
     if ($ISO -eq "Auto") {
          Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
```

```
ForEach ($item in $Package) {
       $TempFilePath = Join-Path -Path $_.Root -ChildPath $item -ErrorAction SilentlyContinue
       if (Test-Path $TempFilePath -PathType Leaf) {
         Write-host "`n Find: "-NoNewLine; Write-host $TempFilePath -ForegroundColor Green
         Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
         Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
 } else {
   ForEach ($item in $Package) {
     $TempFilePath = Join-Path +Path $ISO - ChildPath $item - ErrorAction SilentlyContinue
     Write-host "`n Find: "-NoNewline; Write-host $TempFilePath -ForegroundColor Green
     if (Test-Path $TempFilePath -PathType Leaf) {
       Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
       Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
     } else {
       Write-host " Not found"
 Write-host "`n Verify the language pack file"
 ForEach ($item in $Package) {
   $Path = "$($NewSaveTo)\$([IO.Path]::GetFileName($item))"
   if (Test-Path $Path -PathType Leaf) {
     Write-host " Discover: " -NoNewLine; Write-host $Path -ForegroundColor Green
   } else {
     \label{thm:cont} \textit{Write-host "Not found: "-NoNewLine; Write-host $Path -ForegroundColor Red}
$AdvLanguage = @(
 @{
   Path = "Install\Install"
```

```
"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-
Package~31bf3856ad364e35~AMD64~~.cab"
               "Languages And Optional Features \verb|\Microsoft-Windows-Client-Language-Pack_x64_{\{Lang\}.cab}|" and the substitution of the property of the pr
               "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
                "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-AMD64-{Lang}.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-wow64-{Lang}.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
                "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
               "Languages And Optional Features \verb|\Microsoft-Windows-WMIC-FoD-Package<| 31bf3856ad364e35<| wow64<| Lang| > .cab | Languages | Languages
               "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
               "LanguagesAndOptionalFeatures\Microsoft-Windows-InternationalFeatures-{Specific}-Package~31bf3856ad364e35~amd64~~.cab"
        @{
           Path = "Install\WinRE"
           Rule = @(
               "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
                "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
                "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
                "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
                "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
```

Rule = @(

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-speech-tts_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang},cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srt_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxdeployment_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxpackaging_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-storagewmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wifi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-windowsupdate_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-rejuv_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-opcservices_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-hta_{Lang}.cab"
@{
 Path = "Boot\Boot"
 Rule = @(
   "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang\\p.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WinPE-Setup_{Lang},cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-CLIENT_{Lang}.CAB"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang\\winpe-speech-tts_{Lang}.cab"
```

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab"
                    $NewFonts = Match_Required_Fonts -Lang $NewLang
     $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
     Foreach ($item in $Expand) {
          $Language = @()
          Foreach ($itemList in $AdvLanguage) {
               if ($itemList.Path -eq $item) {
                    Foreach ($PrintLang in $itemList.Rule) {
                         \alpha + = "(\$PrintLang)".Replace("{Lang}", \$NewLang).Replace("{DiyLang}", \$NewFonts).Replace("{Specific}", \$NewFonts).Replace("{Specif
$SpecificPackage)
                    Extract_Process -NewSaveTo $itemList.Path -Package $Language -Name $item
For Each ($item in $Extract_language_Pack) { Extract_Language -Act $item.Act -NewLang $item.Tag -Expand $item.Scope }
```

C. 自定义部署映像

- II 自定义部署映像: Install.wim
 - 1. 查看 Install.wim 详细信息

```
映像名称、映像描述、映像大小、架构、版本、索引号等;
$ViewFile = "D:\OS_11\Sources\Install.wim"

Get-WindowsImage -ImagePath $ViewFile | Foreach-Object { Get-WindowsImage -ImagePath $ViewFile -index $_.ImageIndex }
```

循环操作区域,开始,

2. 指定挂载 Install 路径



3. 开始挂载 Install.wim

默认索引号: 1

 $\label{lem:lem:mount-windows} Mount-Windows Image - Image Path "D: \OS_11 \setminus Sources \setminus Image - Image$

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义部署映像: WinRE.wim

注意:

- WinRE.wim 属于 Install.wim 映像内的文件;
- Install.wim 有多个索引号时,仅处理任意一个 WinRE.wim 即可;
- 同步至所有索引号即可减少 Install.wim 体积,学习"如何批量替换 Install.wim 里的所有索引号里的WinRE.wim"。

3.1.1. 查看 WinRE.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

Get-WindowsImage -ImagePath \$ViewFile | Foreach-Object { Get-WindowsImage -ImagePath \$ViewFile -index \$_.ImageIndex }

3.1.2. 指定挂载 WinRE.wim 路径

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

3.1.4. 语言包

• 自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于WinRE.wim"。

• 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

3.1.4.1. 语言包:添加

- WinRE.Instl.lang.ps1
 - o \Expand\Install\WinRE\WinRE.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Exp and/Install/WinRE/WinRE.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
Sources = "D:\OS_11\_Custom\Install\WinRE\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
```

```
@{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_zh-CN.cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 For Each ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
     try {
      Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
     break
```

3.1.4.2. 脱机映像语言: 更改

3.1.4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

 $\label{lem:limit} Dism/Image: "D: \OS_11_Custom \Install \WinRE \Mount" / Set-All \Intl: zh-CN$

3.1.4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_11_Custom\Install\WinRE\Mount" /Get-Intl

3.1.4.3. 语言包:删除,可选



- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时, 请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US,需提前提取语言包
- WinRE.Del.Specified.lang.Tag.ps1
 - o \Expand\Install\WinRE\WinRE.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Ex
 pand/Install/WinRE/WinRE.Del.Specified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_11_Custom\Install\WinRE\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$($Lang).cab"; }
  @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$($Lang).cab"; }
  @{ Match = "*hta*"; File = "winpe-hta_$($Lang).cab"; }
  @{ Match = "*opcservices*"; File = "winpe-opcservices_$($Lang).cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_$($Lang).cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_$($Lang).cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$($Lang).cab"; }
  @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$($Lang).cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$($Lang).cab"; }
  @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$($Lang).cab"; }
  @{ Match = "*srt*"; File = "winpe-srt_$($Lang).cab"; }
  @{ Match = "*srh*"; File = "winpe-srh_$($Lang).cab"; }
  @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$($Lang).cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_$($Lang).cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_$($Lang).cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$($Lang).cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$($Lang).cab"; }
```

```
@{ Match = "*AudioCore*"; File = "winpe-audiocore_$($Lang).cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_$($Lang).cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_$($Lang).cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 For Each ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
      Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -
ErrorAction SilentlyContinue | Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
      Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
 }
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
```

```
Write-Host " Deleting ".PadRight(22) -NoNewline

try {

Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction

SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

Write-host " $($_)" -ForegroundColor Red

}
```

3.1.4.4. 组件:映像中已安装的所有包

3.1.4.4.1. 查看

 $Get-Windows Package - Path "D: \OS_11_Custom \Install \WinRE \Mount" \mid Out-Grid \View$

3.1.4.4.2. 导出到 Csv

\$SaveTo = "D:\OS_11_Custom\Install\WinRE\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_11_Custom\Install\WinRE\Mount" | Export-CSV - NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

3.1.5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB_WinRE.cab

3.1.5.1. 添加

\$KBPath = "D:\OS_11_Custom\Install\WinRE\Update\KB_WinRE.cab"

 ${\tt Add-WindowsPackage-Path~"D:\OS_11_Custom\Install\WinRE\Mount"-PackagePath~\$KBPath}$

3.1.5.2. 删除

 $$KBPath = "D:\OS_11_Custom\Install\WinRE\Update\KB_WinRE.cab"$

 $Remove-Windows Package - Path "D: \OS_11_Custom \Install \WinRE \Mount" - Package Path $KBPath \All Stall \All \All Stall \All \All Stall \All \All Stall \All \All Stall \All \All Stall \All Stall$

3.1.5.3. 固化更新,可选项



固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image:"D:\OS_11_Custom\Install\WinRE\Mount" /cleanup-image /StartComponentCleanup /ResetBase

3.1.5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"

Get-WindowsPackage -Path $Mount -ErrorAction SilentlyContinue | ForEach-Object {

if ($_..PackageState -eq "Superseded") {

Write-Host " $($_..PackageName)" -ForegroundColor Green

Remove-WindowsPackage -Path $Mount -PackageName $_.PackageName | Out-Null

}
```

3.1.6. 驱动

3.1.7. 保存映像

Save-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount"

3.1.8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -Discard

3.1.9. 重建 WinRE.wim 后,可缩小文件大小

- WinRE.Rebuild.ps1
 - o \Expand\Install\WinRE\WinRE.Rebuild.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/WinRE.Rebuild.ps1

复制代码

```
$FileName = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

Get-WindowsImage -ImagePath $Filename -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline

Write-Host $_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline

Write-Host $_.ImageIndex -ForegroundColor Yellow
```



```
Write-Host "`n Rebuild".PadRight(28) -NoNewline

Export-WindowsImage -SourceImagePath $Filename -SourceIndex $_.ImageIndex -DestinationImagePath

"$($FileName).New" -CompressionType max

Write-Host "Finish` n" -ForegroundColor Green

}

if (Test-Path "$($FileName).New" -PathType Leaf) {

Remove-Item -Path $Filename

Move-Item -Path "$($FileName).New" -Destination $Filename

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red
```

3.1.10. 备份 WinRE.wim

- WinRE.Backup.ps1
 - o \Expand\Install\WinRE\WinRE.Backup.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/WinRE.Backup.ps1

• 复制代码

```
$WimLibPath = "D:\OS_11_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

New-Item -Path $WimLibPath -ItemType Directory -ea SilentlyContinue

Copy-Item -Path $FileName -Destination $WimLibPath -Force
```

3.1.11. 替换 Install.wim 映像内的 WinRE.wim

- 每次挂载 Install.wim 后"替换 WinRE.wim";
- 学习"获取 Install.wim 所有索引号后并替换旧的 WinRE.wim"。

处理 Install.wim 映像内的文件,结束。

4. 语言包

自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于Install.wim"。

• 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

4.1. 语言包:添加

- Install.Instl.lang.ps1
 - \Expand\Install.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Instl.la ng.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\Install\Mount"
$Sources = "D:\OS_11_Custom\Install\Install\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"
$Language_List = @(
 @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
```

```
Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*Client*LanguagePack*zh-TW*"; File = "Microsoft-Windows-InternationalFeatures-Taiwan-
Package~31bf3856ad364e35~amd64~~.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
    Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
    Write-host " Language pack file: "-NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
    Write-Host " Installing ".PadRight(22) -NoNewline
     try {
      Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
      Write-host "Finish" -ForegroundColor Green
    } catch {
      Write-host "Failed" -ForegroundColor Red
     break
```

4.2. 脱机映像语言: 更改

- 从 Windows 11 开始, DISM 设置的默认系统 UI 语言在所有版本中保持不变(家庭版除外)。 对于所有商业版,在开箱即用体验 (OOBE) 期间选择的语言会设置为系统首选 UI 语言,Windows 将以此语言显示;对于家庭版,在 OOBE 期间选择的语言将继续用作默认系统 UI 语言。
- 从 Windows 10 版本 2004 开始,如果将基于 .appx 的语言体验包 (LXP) 支持的语言作为参数传递,则该语言将设置为系统首选 UI 语言,其父语言将设置为默认系统 UI 语言。在以前的版本中,仅支持基于 .cab 的语言包。

4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

Dism /Image: "D:\OS_11_Custom\Install\Mount" /Set-AllIntl: "zh-CN"

4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS_11_Custom\Install\Install\Mount" /Get-Intl

4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US,需提前提取语言包
- Install.Del.Specified.lang.Tag.ps1
 - \Expand\Install\Install.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install/Install.
 Del.Specified.lang.Tag.ps1

• 复制代码

\$Lang = "en-US"

```
$Mount = "D:\OS_11_Custom\Install\Install\Mount"

$Sources = "D:\OS_11_Custom\Install\Install\Language\Del\en-US"

$Initl_install_Language_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {

$Initl_install_Language_Component += $_.PackageName
}

$Language = @(

@{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
```

Yi's Solutions

```
@{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-}
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host " `n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
    Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
```

```
Write-host " Language pack file: " -NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
      Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue |
Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
      Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
   }
```

4.4. 组件:映像中已安装的所有包

4.4.1. 查看

 $Get-Windows Package - Path "D: \OS_11_Custom \Install \Mount" \mid Out-Grid View$

4.4.2. 导出到 Csv

\$SaveTo = "D:\OS_11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5. InBox Apps

5.1. InBox Apps: 预安装应用程序

编组缩写

- 群组 A: 教育版, 专业版, 专业教育版, 专业版工作站, 企业版, IoT 企业版, 适用于虚拟桌面的 Windows 10 企业版
- 群组 B:企业版 N,企业版 GN,企业版 SN,专业版 N,教育版 N,专业版工作站 N,专业教育版 N
- 群组 C: 家庭版, 家庭版 N, 家庭单语版

	名称	产品ID	编组
1.	Microsoft.HEIFImageExtension	9PMMSR1CGPWG	A, C
2.	Microsoft.HEVCVideoExtension	9NMZLZ57R3T7	A, C
3.	Microsoft.VP9VideoExtensions	9N4D0MSMP0PT	A, C
4.	Microsoft.WebpImageExtension	9PG2DK419DRG	A, C
5.	Microsoft.GamingApp	9MV0B5HZVK9Z	A, C
6.	Microsoft.ZuneMusic	9WZDNCRFJ3PT	A, C
7.	MicrosoftCorporationII.MicrosoftFamily	9PDJDJS743XF	С
8.	Microsoft.WebMediaExtensions	9N5TDP8VCMHS	A, C
9.	Microsoft.WindowsSoundRecorder	9WZDNCRFHWKN	A, C
10.	Microsoft.Xbox.TCUI	9NKNC0LD5NN6	A, C
11.	Microsoft.ZuneVideo	9WZDNCRFJ3P2	A, C
12.	Microsoft.XboxGamingOverlay	9NZKPSTSNW4P	A, C
13.	Microsoft.RawImageExtension	9NCTDW2W1BH8	A, C
14.	Microsoft.UI.Xaml.2.3		A, B, C
15.	Microsoft.UI.Xaml.2.4		A, B, C
16.	Microsoft.UI.Xaml.2.7		A, B, C
17.	Microsoft.NET.Native.Framework.2.2		A, B, C

18.	Microsoft.NET.Native.Runtime.2.2		A, B, C
19.	Microsoft.VCLibs.140.00		A, B, C
20.	Microsoft.VCLibs.140.00.UWPDesktop		A, B, C
21.	Microsoft.SecHealthUI	9NK0JLZT7JD0	A, B, C
22.	Microsoft.WindowsStore	9WZDNCRFJBMP	A, B, C
23.	Microsoft.Sticky.Notes	9NBLGGH4QGHW	A, B, C
24.	Microsoft.Paint	9PCFS5B6T72H	A, B, C
25.	Microsoft.PowerAutomateDesktop	9NFTCH6J7FHV	A, B, C
26.	Microsoft.ScreenSketch	9MZ95KL8MR0L	A, B, C
27.	Microsoft.WindowsNotepad	9MSMLRH6LZF3	A, B, C
28.	Microsoft.WindowsTerminal	9N0DX20HK701	A, B, C
29.	Clipchamp.Clipchamp	9P1J8S7CCWWT	A, B, C
30.	Microsoft.Solitaire.Collection	9WZDNCRFHWD2	A, B, C
31.	Microsoft.WindowsAlarms	9WZDNCRFJ3PR	A, B, C
32.	Microsoft.WindowsFeedbackHub	9NBLGGH4R32N	A, B, C
33.	Microsoft.WindowsMaps	9WZDNCRDTBVB	A, B, C
34.	Microsoft.BingNews	9WZDNCRFHVFW	A, B, C
35.	Microsoft.DesktopAppInstaller	9NBLGGH4NNS1	A, B, C
36.	Microsoft.WindowsCamera	9WZDNCRFJBBG	A, B, C
37.	Microsoft.Getstarted	9WZDNCRDTBJJ	A, B, C
38.	Microsoft.Cortana	9NFFX4SZZ23L	A, B, C
39.	Microsoft.BingWeather	9WZDNCRFJ3Q2	A, B, C
40.	Microsoft.GetHelp	9PKDZBMV1H3T	A, B, C
41.	Microsoft.MicrosoftOfficeHub	9WZDNCRD29V9	A, B, C
42.	Microsoft.People	9NBLGGH10PG8	A, B, C
43.	Microsoft.StorePurchaseApp	9NBLGGH4LS1F	A, B, C
44.	Microsoft.Todos	9NBLGGH5R558	A, B, C
45.	Microsoft.Windows.Photos	9WZDNCRFJBH4	A, B, C
46.	Microsoft.WindowsCalculator	9WZDNCRFHVN5	A, B, C
47.	Microsoft.Windows.CommunicationsApps	9WZDNCRFHVQM	A, B, C
48.	Microsoft.XboxGameOverlay	9NBLGGH537C2	A, B, C
49.	Microsoft.XboxIdentityProvider	9WZDNCRD1HKW	A, B, C
50.	Microsoft.XboxSpeechToTextOverlay	9P086NHDNB9W	A, B, C
51.	Microsoft.YourPhone	9NMPJ99VJBWV	A, B, C

53. MicrosoftWindows.Client.WebExperience

9MSSGKG348SP

A, B, C

5.2. InBox Apps:已安装

5.2.1. 查看

5.2.2. 导出到 Csv

```
SaveTo = D:OS_11_Custom \label{Report.} (Get-Date - Format "yyyyMMddHHmmss").csv"
```

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.3. 删除已安装的所有预应用程序

- Install.InBox.Appx.Clear.all.ps1
 - $o \verb| \Expand Install. In Box. Appx. Clear. all. ps 1|$
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install.InBox.
 Appx.Clear.all.ps1

• 复制代码

```
Get-AppXProvisionedPackage -path "D:\OS_11_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {

Write-host "`n $($_.DisplayName)"

Write-Host " Deleting ".PadRight(22) -NoNewline

try {

Remove-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green
} catch {

Write-host "Failed" -ForegroundColor Red
}
```

5.4. 区域标记:了解

了解区域标记前,先了解 ZuneMusic 应用程序可用的语言列表: en-us, en-gb, as-in, az-latn-az, bs-latn-ba, bn-in, cs-cz, cy-gb, ar-sa, de-de, af-za, am-et, da-dk, el-gr, es-es, es-mx, ca-es, ca-es-valencia, eu-es, fi-fi, bg-bg, ga-ie, et-ee, gl-es, gu-in, gd-

gb, fil-ph, fr-ca, fr-fr, hy-am, fa-ir, hu-hu, id-id, it-it, ja-jp, hr-hr, ka-ge, is-is, he-il, hi-in, kk-kz, lo-la, km-kh, lt-lt, kn-in, kok-in, ko-kr, mk-mk, lv-lv, ms-my, mi-nz, mr-in, mt-mt, ne-np, nl-nl, nb-no, ml-in, nn-no, lb-lu, or-in, ro-ro, sk-sk, ru-ru, pl-pl, quz-pe, pt-br, pt-pt, sq-al, ta-in, th-th, sv-se, pa-in, sr-cyrl-ba, sr-cyrl-rs, sr-latn-rs, ur-pk, ug-cn, tr-tr, uk-ua, tt-ru, zh-cn, vi-vn, uz-latn-uz, sl-si, zh-tw, te-in

查看脱机映像已安装的语言

Dism /Image:"D:\OS_11_Custom\Install\Install\Mount" /Get-Intl

查看结果已安装的语言: en-US、zh-CN, 在安装 ZuneMusic 应用时,安装程序会匹配"已安装的语言",自动过滤未安装的语言列表,这就是区域标记。

5.5. 区域标记:添加方式

5.5.1. 执行"语言包:添加"

5.5.2. 安装"本地语言体验包 (LXPs)"

微软官方向 Windows 10 提供了本地语言体验包(LXPS)安装文件,Windows 11 不再提供,想获取:

5.5.2.1. 使用"Windows 本地语言体验包 (LXPs) 下载器"下载

了解: https://github.com/ilikeyi/LXPs

下载后保存到: D:\OS_11_Custom\Install\Install\InBox.Appx, 文件格式:

Language Experience Pack. zh-CN. Neutral. Appx

5.5.2.2. 手动下载

5.5.2.2.1. 区域

区域	产品ID	区域	产品ID
en-US	C9PDSCC711RVF	af-za	9PDW16B5HMXR
am-et	9NGL4R61W3PL	ar-sa	9N4S78P86PKX
as-in	9NTJLXMXX35J	az-latn-az	9P5TFKZHQ5K8
be-by	9MXPBGNNDW3L	bg-bg	9MX54588434F
bn-bd	9PH7TKVXGGM8	bn-in	9P1M44L7W84T
bs-latn-ba	9MVFKLJ10MFL	ca-es	9P6JMKJQZ9S7
ca-es-valencia	9P9K3WMFSW90	chr-cher-us	9MX15485N3RK
CS-CZ	9P3WXZ1KTM7C	cy-gb	9NKJ9TBML4HB
da-dk	9NDMT2VKSNL1	de-de	9P6CT0SLW589
el-gr	9N586B13PBLD	en-gb	9NT52VQ39BVN

es-es	9NWVGWLHPB1Z	es-mx	9N8MCM1X3928
et-ee	9NFBHFMCR30L	eu-es	9NMCHQHZ37HZ
fa-ir	9NGS7DD4QS21	fi-fi	9MW3PQ7SD3QK
fil-ph	9NWM2KGTDSSS	fr-ca	9MTP2VP0VL92
fr-fr	9NHMG4BJKMDG	ga-ie	9P0L5Q848KXT
gd-gb	9P1DBPF36BF3	gl-es	9NXRNBRNJN9B
gu-in	9P2HMSWDJDQ1	ha-latn-ng	9N1L95DBGRG3
he-il	9NB6ZFND5HCQ	hi-in	9NZC3GRX8LD3
hr-hr	9NW01VND4LTW	hu-hu	9MWN3C58HL87
hy-am	9NKM28TM6P67	id-id	9P4X3N4SDK8P
ig-ng	9PG4ZFJ48JSX	is-is	9NTHJR7TQXX1
it-it	9P8PQWNS6VJX	ja-jp	9N1W692FV4S1
ka-ge	9P60JZL05WGH	kk-kz	9PHV179R97LV
km-kh	9PGKTS4JS531	kn-in	9NC6DB7N95F9
kok-in	9MV3P55CMZ6P	ko-kr	9N4TXPCVRNGF
ku-arab-iq	9P1C18QL3D7H	ky-kg	9P7D3JJGZM48
lb-lu	9N0ST1WBZ9D9	lo-la	9N8X352G5NZV
lt-lt	9NWWD891H6HN	lv-lv	9N5CQDPH6SQT
mi-nz	9P2GDFB3JPSX	mk-mk	9P1X6XB1K3RN
ml-in	9NWDTV8FFV7L	mn-mn	9PG1DHC4VTZW
mr-in	9MWXCKHJVR1J	ms-my	9NPXL8ZSDDQ7
mt-mt	9PDG96SQ6BN8	nb-no	9N6J0M5DHCK0
ne-np	9P7CHPLWDQVN	nl-nl	9PF1C9NB5PRV
nn-no	9PK7KM3Z06KH	nso-za	9NS49QLX5CDV
or-in	9NTHCXCXSJDH	pa-arab-pk	9NJRL03WH6FM
pa-in	9NSNC0ZJX69B	pl-pl	9NC5HW94R0LD
prs-af	9P3NGC6X5ZQC	pt-br	9P8LBDM4FW35
pt-pt	9P7X8QJ7FL0X	quc-latn-gt	9P2V6MNNQZ0B
quz-pe	9NHTX8NVQ04K	ro-ro	9MWXGPJ5PJ3H
ru-ru	9NMJCX77QKPX	rw-rw	9NFW0M20H9WG
sd-arab-pk	9NB9JSCXW9X5	si-lk	9NVF9QSLGTL0
sk-sk	9N7LSNN099WB	sl-si	9NV27L34J4ST
sq-al	9MWLRGNMDGK7	sr-cyrl-ba	9MXGN7V65C7B
sr-cyrl-rs	9PPD6CCK9K5H	sr-latn-rs	9NBZ0SJDPPVT

sv-se	9P0HSNX08177	sw-ke	9NFF2M19DQ55
ta-in	9PDZB1WT1B34	te-in	9PMQJJGF63FW
tg-cyrl-tj	9MZHLBPPT2HC	th-th	9MSTWFRL0LR4
ti-et	9NC8C9RDNK2S	tk-tm	9NKHQ4GL6VLT
tn-za	9NFSXM123DHT	tr-tr	9NL1D3T5HG9R
tt-ru	9NV90Q1X1ZR2	ug-cn	9P52C5D7VL5S
uk-ua	9PPPMZRSGHR8	ur-pk	9NDWFTFW12BQ
uz-latn-uz	9P5P2T5P5L9S	vi-vn	9P0W68X0XZPT
wo-sn	9NH3SW1CR90F	xh-za	9NW3QWSLQD17
yo-ng	9NGM3VPPZS5V	zh-cn	9NRMNT6GMZ7
zh-tw	9PCJ4DHCQ1JQ	zu-za	9NNRM7KT5NB0

下载区域: zh-CN,应用程序ID: 9NRMNT6GMZ70,商店连接:

https://www.microsoft.com/store/productId/9NRMNT6GMZ70

5.5.2.2.2. 打开网站: https://store.rg-adguard.net

5.5.2.2.2.1. 搜索关键词:

https://www.microsoft.com/store/productId/9NRMNT6GMZ70

5.5.2.2.2.2. 网页内搜索 22621 内容, 搜索结果:

Microsoft.LanguageExperiencePackzh-CN_22621.*. neutral_8wekyb3d8bbwe.appx

5.5.2.2.2.3. 下载后保存到 D:\OS_11_Custom\Install\Install\InBox.Appx 目录里,

重命名: LanguageExperiencePack.zh-cn.Neutral.Appx

5.5.2.3. 执行安装命令安装本地语言体验包 (LXPs)

了解区域标记添加方式后,获得 Language Experience Pack.zh-cn. Neutral 后,执行安装命令:

Add-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackagePath "D:\OS_11_Custom\Install\InBox.appx\LanguageExperiencePack.zh-cn.Neutral.appx" - SkipLicense

5.5.2.4. InBox Apps: 已安装的应用程序包

5.5.2.4.1. 查看

 $\label{lem:condition} Get-AppXProvisionedPackage - Path "D: \OS_11_Custom \Install \Mount" \mid Out-Grid View$

5.5.2.4.2. 导到出 Csv

\$SaveTo = "D:\OS_11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.6. InBox Apps:安装

5.6.1. 挂载或解压 InBox Apps 安装文件

挂载 22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 或解压到任意位置;

5.6.2. 执行安装命令后安装 InBox Apps 到: Install.wim

- Auto = 自动搜索本地所有磁盘,默认;
- 自定义路径,例如指定为 F 盘: \$ISO = "F:\packages"
- 架构: x64
- Install.Inst.InBox.Appx.ps1
 - o \Expand\Install.Inst.InBox.Appx.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Inst.InBox.Appx.ps1

• 复制代码

```
$ISO = "Auto"

$Mount = "D:\OS_11_Custom\Install\Install\Mount"

$Arch = "x64"

try {

Write-host "`n Offline image version: " -NoNewline

$Current_Edition_Version = (Get-WindowsEdition -Path $Mount).Edition

Write-Host $Current_Edition_Version -ForegroundColor Green

} catch {

Write-Host "Error" -ForegroundColor Red

Write-Host " $($_)" -ForegroundColor Yellow

return

}

$Pre_Config_Rules = @{
```

```
Edition = @(
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     Apps = @(
      "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.Services.Store.Engagement";
"Microsoft.VP9VideoExtensions"; "Clipchamp.Clipchamp"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; "Microsoft.Getstarted"; "Microsoft.HEIFImageExtension";
"Microsoft.HEVCVideoExtension"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.MicrosoftStickyNotes";
"Microsoft.MinecraftEducationEdition"; "Microsoft.Paint"; "Microsoft.RawImageExtension";
"Microsoft.ScreenSketch"; "Microsoft.SecHealthUI"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.Whiteboard";
"Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsCalculator";
"Microsoft.WindowsCamera"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.WindowsNotepad"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay"; "Microsoft.ZuneMusic";
"Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist";
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"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.Services.Store.Engagement";
"Microsoft.XboxSpeechToTextOverlay"; "Clipchamp.Clipchamp"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; "Microsoft.Getstarted"; "Microsoft.MicrosoftOfficeHub";
"Microsoft.MicrosoftStickyNotes"; "Microsoft.MinecraftEducationEdition"; "Microsoft.Paint";
"Microsoft.ScreenSketch"; "Microsoft.SecHealthUI"; "Microsoft.StorePurchaseApp"; "Microsoft.Whiteboard";
"Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsCalculator";
"Microsoft.WindowsCamera"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.WindowsNotepad"; "Microsoft.XboxIdentityProvider"; "MicrosoftCorporationII.QuickAssist";
   @{
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"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.MicrosoftStickyNotes"; "Microsoft.Paint";
```

```
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller";
"Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
"Microsoft.RawImageExtension"; "MicrosoftCorporationII.MicrosoftFamily";
   @{
     Name = @(
       "Education"; "Professional"; "ProfessionalEducation"; "ProfessionalWorkstation"; "Enterprise";
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"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.MicrosoftStickyNotes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller";
"Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
"Microsoft.RawImageExtension";
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     Apps = @(
      "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
```

```
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.SecHealthUI"; "Microsoft.WindowsStore";
"Microsoft.MicrosoftStickyNotes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop";
"Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal";
"Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection"; "Microsoft.WindowsAlarms";
"Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";
"Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist";
"MicrosoftWindows.Client.WebExperience";
 Rule = @(
   @{ Name="Microsoft.UI.Xaml.2.3"; Match="UI.Xaml*{ARCHTag}*2.3"; License="UI.Xaml*{ARCHTag}*2.3";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.4"; Match="UI.Xaml*{ARCHTag}*2.4"; License="UI.Xaml*{ARCHTag}*2.4";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.7"; Match="UI.Xaml*{ARCHTag}*2.7"; License="UI.Xaml*{ARCHTag}*2.7";
Dependencies=@(); }
   @{ Name="Microsoft.NET.Native.Framework.2.2";
Match="Native.Framework*{ARCHTag}*2.2";License="Native.Framework*{ARCHTag}*2.2";Dependencies=@();}
   @{ Name="Microsoft.NET.Native.Runtime.2.2";
Match="Native.Runtime*{ARCHTag}*2.2";License="Native.Runtime*{ARCHTag}*2.2"; Dependencies=@();}
   @{ Name="Microsoft.VCLibs.140.00"; Match="VCLibs*{ARCHTag}"; License="VCLibs*{ARCHTag}";
Dependencies=@(); }
   @{ Name="Microsoft.VCLibs.140.00.UWPDesktop";
Match="VCLibs*{ARCHTag}*Desktop";License="VCLibs*{ARCHTag}*Desktop"; Dependencies=@(); }
   @{ Name="Microsoft.HEIFImageExtension"; Match="HEIFImageExtension"; License="HEIFImageExtension*";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.HEVCVideoExtension";
Match="HEVCVideoExtension*{ARCHC}";License="HEVCVideoExtension*{ARCHC}*xml";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.SecHealthUI"; Match="SecHealthUI*{ARCHC}";License="SecHealthUI*{ARCHC}";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.VCLibs.140.00");}
   @{ Name="Microsoft.VP9VideoExtensions";
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   @{ Name="Microsoft.WebpImageExtension";
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   @{ Name="Microsoft.WindowsStore"; Match="WindowsStore";License="WindowsStore";
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```

```
.2.2","Microsoft.VCLibs.140.00"); }
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     @{ Name="Microsoft.MicrosoftStickyNotes";
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140.00"); }
      @{ Name="Microsoft.Paint"; Match="Paint"; License="Paint";
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     @{ Name="Microsoft.PowerAutomateDesktop";
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Dependencies=@("Microsoft.VCLibs.140.00.UWPDesktop"); }
      @{ Name="Microsoft.ScreenSketch"; Match="ScreenSketch"; License="ScreenSketch";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.VCLibs.140.00"); }
      @{ Name="Microsoft.WindowsNotepad"; Match="WindowsNotepad"; License="WindowsNotepad";
Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop","Microsoft.UI.Xaml.2.7"); }
      @{ Name="Microsoft.WindowsTerminal"; Match="WindowsTerminal"; License="WindowsTerminal";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.VCLibs.140.00.UWPDesktop"); }
     @{ Name="Clipchamp.Clipchamp"; Match="Clipchamp.Clipchamp.Clipchamp."; License="Clipchamp.Clipchamp";
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     @{ Name="Microsoft.MicrosoftSolitaireCollection";
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140.00"); }
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      @{\bf Name="Microsoft.WindowsMaps"; Match="WindowsMaps"; License="WindowsMaps"; License="Wi
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.2.2","Microsoft.VCLibs.140.00"); }
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     @{ Name="MicrosoftCorporationII.MicrosoftFamily"; Match="MicrosoftFamily"; License="MicrosoftFamily";
Dependencies=@(); }
     @{ Name="Microsoft.BingNews"; Match="BingNews"; License="BingNews";
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```

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```
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   @{ Name="Microsoft.GetHelp"; Match="GetHelp"; License="GetHelp";
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.2.2", "Microsoft. VCLibs. 140.00"); }
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Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Microsoft.People"; Match="People"; License="People";
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   @{ Name="Microsoft.Todos"; Match="Todos"; License="Todos";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WebMediaExtensions"; Match="WebMediaExtensions"; License="WebMediaExtensions";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.Windows.Photos"; Match="Windows.Photos"; License="Windows.Photos";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WindowsCalculator"; Match="WindowsCalculator"; License="WindowsCalculator";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.windowscommunicationsapps";
Match="WindowsCommunicationsApps";License="WindowsCommunicationsApps";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.VCLibs.140.00");}
```

@{Name="Microsoft.WindowsSoundRecorder";
Match="WindowsSoundRecorder";License="WindowsSoundRecorder";
Dependencies=@("Microsoft.UI.Xaml.2.3","Microsoft.VCLibs.140.00");}

@{ Name="Microsoft.Xbox.TCUI"; Match="Xbox.TCUI"; License="Xbox.TCUI";

- Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs. 140.00"); }
- $@\{ Name="Microsoft.XboxGameOverlay"; Match="XboxGameOverlay"; License="XboxGameOverlay"; Dependencies=@("Microsoft.VCLibs.140.00"); \} \\$
- @{ Name="Microsoft.XboxGamingOverlay"; Match="XboxGamingOverlay"; License="XboxGamingOverlay"; Dependencies=@("Microsoft.VCLibs.140.00"); }
 - $@\{ Name="Microsoft.XboxIdentityProvider"; Match="XboxIdentityProvider"; License="XboxIdentityProvider"; License="XboxIdentit$

```
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
 140.00");}
           @{ Name="Microsoft.XboxSpeechToTextOverlay";
{\tt Match="XboxSpeechToTextOverlay"; License="XboxSpeechToTextOverlay";}
Dependencies=@("Microsoft.VCLibs.140.00"); }
           @{ Name="Microsoft.YourPhone"; Match="YourPhone"; License="YourPhone";
 Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
 140.00", "Microsoft. VCLibs. 140.00. UWPDesktop"); }
           @{ Name="Microsoft.ZuneVideo"; Match="ZuneVideo"; License="ZuneVideo";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.VCLibs.140.00"); }
           @{ Name="MicrosoftCorporationII.QuickAssist"; Match="QuickAssist"; License="QuickAssist";
Dependencies=@(); }
           @{Name="MicrosoftWindows.Client.WebExperience"; Match="WebExperience"; License="WebExperience"; License="WebExperience"
Dependencies=@("Microsoft.VCLibs.140.00"); }
            @{ Name="Microsoft.MinecraftEducationEdition";
Match="MinecraftEducationEdition";License="MinecraftEducationEdition";
 Dependencies=@("Microsoft.VCLibs.140.00.UWPDesktop"); }
           @{ Name="Microsoft.Whiteboard"; Match="Whiteboard"; License="Whiteboard";
 Dependencies = @ ("Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.VCLibs.") and the proposed control of the pro
 140.00"); }
           @{ Name="Microsoft.RawImageExtension"; Match="RawImageExtension"; License="RawImageExtension";
Dependencies=@(); }
 $Allow_Install_App = @()
 ForEach ($item in $Pre_Config_Rules.Edition) {
      if ($item.Name -contains $Current_Edition_Version) {
           Write-host "`n Match to: "-NoNewline; Write-host $Current_Edition_Version -ForegroundColor Green
           $Allow_Install_App = $item.Apps
           break
Write-host "`n The app to install ( $($Allow_Install_App.Count) item )" -ForegroundColor Yellow
Write-host " $('-' * 80)"
 ForEach ($item in $Allow_Install_App) {
     Write-host " $($item)" -ForegroundColor Green
Function Match_InBox_Apps_Install_Pack
{
      param ($NewPath)
```

```
$NewArch = $Arch
  $NewArchC = $Arch.Replace("AMD64", "x64")
  $NewArchCTag = $Arch.Replace("AMD64", "x64")
  if ($Arch -eq "arm64") { $NewArchCTag = "arm" }
  if ($Pre_Config_Rules.Rule.Count -gt 0) {
    ForEach ($itemInBoxApps in $Pre_Config_Rules.Rule){
      $InstallPacker = ""
      $InstallPackerCert = ""
      $SearchNewStructure = $itemInBoxApps.Match.Replace("{ARCH}", $NewArch).Replace("{ARCHC}",
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
      \ensuremath{\mbox{SearchNewLicense}} = \ensuremath{\mbox{EmInBoxApps.License.Replace}(\ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{NewArch}}). \ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{Replace}})
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
      Get-ChildItem -Path $NewPath -Filter "*$($SearchNewStructure)*" -Include "*.appx", "*.appxbundle",
"*.msixbundle" -Recurse -Force -ErrorAction SilentlyContinue | ForEach-Object {
        if (Test-Path -Path $_.FullName -PathType Leaf) {
          $InstallPacker = $_.FullName
          Get-ChildItem -Path $NewPath -Filter "*$($SearchNewLicense)*" -Include *.xml -Recurse -Force -
ErrorAction SilentlyContinue | ForEach-Object {
             $InstallPackerCert = $_.FullName
          $Script:InBoxAppx += @{
            Name
                         = $itemInBoxApps.Name;
            Depend
                          = $itemInBoxApps.Dependencies;
                         = $SearchNewStructure;
            Search
            InstallPacker = $InstallPacker;
            Certificate = $InstallPackerCert
            CertificateRule = $SearchNewLicense
          return
Write-host "`n InBox Apps: Installation packages, automatic search for full disk or specified paths" -
```

ForegroundColor Yellow

```
Write-host " $('-' * 80)"
$Script:InBoxAppx = @()
if ($ISO -eq "Auto") {
  Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
   $AppPath = Join-Path -Path $_.Root -ChildPath "packages" -ErrorAction SilentlyContinue
   Match_InBox_Apps_Install_Pack -NewPath $AppPath
} else {
  Match_InBox_Apps_Install_Pack -NewPath $ISO
Write-host "Search Complete" - Foreground Color Green
Write-host "`n InBox Apps: Installer Match Results" -ForegroundColor Yellow
Write-host " $('-' * 80)"
if ($Script:InBoxAppx.Count -gt 0) {
  Write-host " Match successful" -ForegroundColor Green
} else {
  Write-host "Failed match" -ForegroundColor Red
  return
Write-host "`n InBox Apps: Details of the application to be installed ( $($Script:InBoxAppx.Count) item )" -
ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host " Apps name: "-NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
  Write-host " Apps installer: " -NoNewline; Write-host $Rule.InstallPacker -ForegroundColor Yellow
  Write-host " License: " -NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
  Write-host ""
Write-host "`n InBox Apps: Installation" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host " Name: "-NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
  Write-host " $('-' * 80)"
  if($Allow_Install_App -contains $Rule.Name) {
   Write-host "Search for apps: "-NoNewline; Write-host $Rule.InstallPacker -ForegroundColor Yellow
```

```
Write-host "Search for License: "-NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
   if (Test-Path -Path $Rule.InstallPacker -PathType Leaf) {
     if (Test-Path -Path $Rule.Certificate -PathType Leaf) {
       Write-host "License: "-NoNewline
       Write-host $Rule.Certificate -ForegroundColor Yellow
       Write-host " With License".PadRight(22) -NoNewline -ForegroundColor Green
       Write-host " Installing".PadRight(22) -NoNewline
       try {
        Add-AppxProvisionedPackage -Path $Mount -PackagePath $Rule.InstallPacker -LicensePath
$Rule.Certificate -ErrorAction SilentlyContinue | Out-Null
        Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n" -ForegroundColor Red
     } else {
       Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
       Write-host " Installing".PadRight(22) -NoNewline
       try {
         Add-AppxProvisionedPackage -Path $Mount -PackagePath $Rule.InstallPacker -SkipLicense -ErrorAction
SilentlyContinue | Out-Null
         Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n"-ForegroundColor Red
   } else {
     Write-host " The installation package does not exist" -ForegroundColor Red
   }
 } else {
   Write-host "Skip the installation`n" -ForegroundColor Red
```



5.7. 区域标记: 删除

- 完成安装 InBox Apps 应用后,区域标记已不再重要,可删除或不删除,删除"本地语言体验包(LXPs),简体中文-中国)",区域标记: zh-CN,可更改为其它区域标记。
- Install.Clear.Flag.ps1
 - o \Expand\Install\Install.Clear.Flag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Clear.
 Flag.ps1

• 复制代码

```
$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Foreach-object {

if ($_.DisplayName -Like "*LanguageExperiencePack*$($Lang)*") {

Write-host " $($_.DisplayName)"

Write-Host " Deleting ".PadRight(22) -NoNewline

try {

Remove-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

}
```

5.8. InBox Apps: 优化

在安装应用后,应优化预配 Appx 包,通过用硬链接替换相同的文件来减少应用的磁盘使用量,仅针对脱机映像。

 $\label{lem:limit} Dism/Image: "D: \OS_11_Custom \Install \Mount"/Optimize-Provisioned Appx Packages$

6. 累积更新

- 不同版本、旧版本升级到最新版时,需优先添加"功能启用包"后才能添加最新版累积更新;
- 添加语言包后,可安装与初始版本相同的累积更新,以解决安装后未刷新"组件:映像中已安装的所有包"状态的已知问题;
- 为保持最新,推荐您下载最新版。
- 6.1. 初始版本



6.1.1. 如何下载

累积更新 KB5016632 已无法从 https://www.catalog.update.microsoft.com/Search.aspx?q=KB5016632 里搜索到。

6.1.1.1. 任选一个网站并打开:

- 6.1.1.1.1. https://uupdump.net
- 6.1.1.1.2. https://uup.ee
- 6.1.1.1.3. https://osdump.com
- 6.1.1.2. 打开后,搜索关键词: 22621.382, 在搜索结果选择: Windows 11, version 22H2 (22621.382) amd64 或 Windows 11, version 22H2 (22621.382) arm64
- 6.1.1.3. 打开后,选择"全部文件";
- 6.1.1.4. 在"全部文件"页面里搜索: KB5016632, 下载:
 - Windows11.0-KB5016632-x64.cab
 - Windows11.0-KB5016632-x64.psf

6.1.1.5. 累积更新: 合并

- 6.1.1.5.1. 前往 https://github.com/abbodi1406/WHD/tree/master/scripts 后下载 PSFX_Repack_6.zip
- 6.1.1.5.2. 下载后解压到: D:\PSFX_Repack_6
- **6.1.1.5.3.** 复制 Windows11.0-KB5016632-x64.cab、Windows11.0-KB5016632-x64.psf **到:** D:\PSFX_Repack_6
- 6.1.1.5.4. 运行: psfx2cab_GUI.cmd 后,将得到一个新的文件:

 $Windows 11.0-KB 5016632-x64-full_ps fx. cab$

6.1.1.5.5. 将 Windows11.0-KB5016632-x64-full_psfx.cab 保存到:

 $\label{thm:condition} D: \label{thm:condition} D: \label{thm:condition} D: \label{thm:condition} Oscillation \label{thm:condit$

6.1.2. 添加

 $$KBPath = "D:\OS_11_Custom\Install\Update\Windows11.0-KB5016632-x64-full_psfx.cab" | The continuous of the continuous$

 $Add-Windows Package - Path "D: \OS_11_Custom \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Wind$

6.2. 其它版本

查阅"Windows 11版本信息",例如下载累积更新: KB5032288,版本号: 22631.2792,前往下载页面:

https://www.catalog.update.microsoft.com/Search.aspx?q=KB5032288, 下载后保存到:

D:\OS_11_Custom\Install\Install\Update,或通过直连下载,根据架构选择下载:

6.2.1. x64, 默认

• 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/d44c2ec3-2179-4305-9f27-fe303f81a9b6/public/windows11.0-kb5032288-x64_04212175664d85ed0f439f8f1f883e9f383b84cf.msu

• 添加

```
$KBPath = "D:\OS_11_Custom\Install\Update\windows11.0-kb5032288-x64_04212175664d85ed0f439f8f1f883e9f383b84cf.msu"
```

 $Add-Windows Package - Path "D: \OS_11_Custom \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Wind$

6.2.2. Arm64

• 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/896c22e8-0e75-46b9-88aa-e2964a650705/public/windows11.0-kb5032288-arm64_384c85d652f32362fbee964d349fa220288d7140.msu

添加

```
$KBPath = "D:\OS_11_Custom\Install\Update\windows11.0-kb5032288-arm64_384c85d652f32362fbee964d349fa220288d7140.msu"
```

 $Add-Windows Package - Path "D: \OS_11_Custom \Install \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Windows$

6.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} Dism/Image: "D: \OS_11_Custom \Install \Mount" / cleanup-image / Start Component Cleanup / Reset Base / Start \Component \Cleanup / Reset \Base / Start \Component \Cleanup / Reset \Component \Cleanup / Reset \Component \Cleanup / Reset \Component \Compone$

6.3.1. 固化更新后清理组件,可选项

```
\label{eq:mount} $\mathsf{Mount} = \mathsf{D}:\OS_11_Custom\Install\Install\Mount"}
```

 ${\sf Get\text{-}WindowsPackage\text{-}Path\text{+}Mount\text{-}ErrorAction\text{-}SilentlyContinue\text{-}|ForEach\text{-}Object\text{-}\{}}$

if (\$_.PackageState -eq "Superseded") {

Write-Host " \$(\$_.PackageName)" -ForegroundColor Green



}

- 7. 驱动,可选
- 8. 部署引擎:添加,可选
 - 了解"部署引擎",如果添加到 ISO 安装介质,可跳过添加到已挂载;
 - 如果添加部署引擎到已挂载里,请继续在当前位置执行下一步。
- 9. 健康

保存前应检查是否损坏,健康状态异常时,中止保存

Repair-WindowsImage -Path "D:\OS_11_Custom\Install\Install\Mount" -ScanHealth

10. 替换 WinRE.wim

已批量替换 Install.wim 里的所有索引号里的 WinRE.wim 请跳过该步骤。

\$WinRE = "D:\OS_11_Custom\Install\Install\Update\Winlib\WinRE.wim"

 $\label{loss} $CopyTo = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery" $$$

Copy-Item -Path \$WinRE -Destination \$CopyTo -Force

11. 保存映像

 $Save-Windows Image - Path "D: \OS_11_Custom \Install \Install \Mount" \\$

12. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_Custom\Install\Install\Mount" -Discard

循环操作区域,结束。

- 13. 重建 Install.wim 后可缩小文件大小
 - Install.Rebuild.wim.ps1
 - o \Expand\Install\Install.Rebuild.wim.ps1
 - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Rebuild.wim.ps1}\\$
 - 复制代码



```
$InstallWim = "D:\OS_11\sources\install.wim"
 Get-WindowsImage - ImagePath $InstallWim - Error Action Silently Continue | For Each-Object {
     Write-Host " Image name: " -NoNewline
     Write-Host $_.ImageName -ForegroundColor Yellow
      Write-Host " The index number: " -NoNewline
     Write-Host $_.ImageIndex -ForegroundColor Yellow
     Write-Host "`n Under reconstruction".PadRight(28) -NoNewline
      Export-Windows Image - Source Image Path $Install Wim - Source Index $\_. Image Index - Destination Image Path $$(\$Install Wim). New $-... $$ in the property of the property
 CompressionType max | Out-Null
     Write-Host "Finish`n" -ForegroundColor Green
 if (Test-Path "$($InstallWim).New" -PathType Leaf) {
      Remove-Item -Path $InstallWim
     Move-Item -Path "$($InstallWim).New" -Destination $InstallWim
     Write-Host "Finish" -ForegroundColor Green
} else {
     Write-host "Failed" -ForegroundColor Red
如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim
 14.1.
                            获取 WimLib
                            前往 https://wimlib.net 官方网站后,选择不同的版本:arm64, x64, x86, 下载完成后解压到:D:\Wimlib
```

- 如何在 Install.wim 里提取和更新 WinRE.wim 14.2.
 - 从 Install.wim 里提取 WinRE.wim 文件 Install.wim 14.2.1.
 - Install.WinRE.Replace.wim.ps1
 - \Expand\Install\Install.WinRE.Replace.wim.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/In stall.WinRE.Replace.wim.ps1
 - 复制代码

```
$Arguments = @(
 "extract",
 "D:\OS_11\sources\install.wim", "1",
```

```
"\Windows\System32\Recovery\Winre.wim",

"--dest-dir=""D:\OS_11_Custom\Install\Install\Update\Winlib"""

)

New-Item -Path "D:\OS_11_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue

Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList $Arguments -wait -nonewwindow
```

14.2.2. 获取 Install.wim 所有索引号后并替换旧的 WinRE.wim

- Install.WinRE.Replace.wim.ps1
 - o \Expand\Install\Install.WinRE.Replace.wim.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1

• 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_11\sources\install.wim" -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline; Write-Host $_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline; Write-Host $_.ImageIndex -ForegroundColor Yellow

Write-Host " `n Replacement "

$Arguments = @(

"update",

"D:\OS_11\sources\install.wim", $_.ImageIndex,

"--command=""add 'D:\OS_11_Custom\Install\Install\Update\Winlib\WinRE.wim'

'\Windows\System32\Recovery\WinRe.wim'"""

)

Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList $Arguments -wait -nonewwindow

Write-Host " Finish`n" -ForegroundColor Green
```

III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

```
$ViewFile = "D:\OS_11\Sources\Boot.wim"
```

Get-WindowsImage -ImagePath \$ViewFile | Foreach-Object { Get-WindowsImage -ImagePath \$ViewFile -index \$_.ImageIndex }

2. 指定挂载 Boot.wim 路径



3. 开始挂载 Boot.wim

默认索引号: 2

Mount-WindowsImage -ImagePath "D:\OS_11\sources\boot.wim" -Index "2" -Path "D:\OS_11_Custom\Boot\Boot\Mount"

4. 语言包

- 自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于 Boot.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

4.1. 语言包:添加

- Boot.Instl.lang.ps1
 - \Expand\Boot\Boot.Instl.lang.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot.Instl.lang.p
 s1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Boot\Boot\Boot\Anguage\Add\zh-CN"

$InitL_instalL_Language_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {
    $InitL_instalL_Language_Component += $_.PackageName
}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
    @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }

    @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }

    @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }

    @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }

    @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }

    @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }

    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }

    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }

    @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
```

```
@{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host " `n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
     try {
       Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
     break
```

4.2. 脱机映像语言: 更改

4.2.1. 更改默认语言、区域设置和其他国际设置

区域标记: zh-CN

Dism /Image:"D:\OS_11_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_11_Custom\Boot\Boot\Mount" /Get-Intl



4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语 美国",区域:en-US,需提前提取语言包
- Boot.Del.Specified.lang.Tag.ps1
 - o \Expand\Boot\Boot.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot/Boot.Del.S
 pecified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_11_Custom\Boot\Boot\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
```

```
@{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: "-NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue | Out-
Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
```

```
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 For Each ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
组件:映像中已安装的所有包
        查看
4.4.1.
         Get-WindowsPackage -Path "D:\OS_11_Custom\Boot\Boot\Mount" | Out-GridView
```

4.4.

导出到 Csv 4.4.2.

\$SaveTo = "D:\OS_11_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv" Get-WindowsPackage -Path "D:\OS_11_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo Write-host \$SaveTo -ForegroundColor Green

4.5. 语言包: 修复

4.5.1. 提取

打开: D:\OS_11_Custom\Install\Language\Add\zh-CN\Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab, 进入目录: Setup\sources\zh-cn\cli, 复制以下文件到桌面:

4.5.1.1. arunres.dll.mui

4.5.1.2. spwizres.dll.mui

4.5.2. 复制

将提取的文件复制到: D:\OS_11_Custom\Boot\Boot\Mount\sources\zh-CN

4.6. 语言包:同步到 ISO 安装程序

4.7. 重新生成 Lang.ini

重新生成后,可调整"安装界面",选择"语言"时的顺序,打开 lang.ini,默认首选值 = 3,非默认值 = 2。

4.7.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

 $us_windows_server_2022_x64_dvd_620d7eac_Custom \\ \ Boot\\ \ Mount\\ \ Sources\\ \ lang.ini$

Dism /image:"D:\OS_11_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS_11_Custom\Boot\Boot\Mount"

4.7.2. 重新生成 lang.ini 后,同步到安装程序

重新生成的 Lang.ini 文件位置: D:\en-us_windows_server_2022_x64_dvd_620d7eac\Sources\lang.ini

 $\label{lem:limit} Dism / image: "D: \OS_11_Custom \Boot \B$

5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB_Boot.cab

5.1. 添加

\$KBPath = "D:\OS_11_Custom\Boot\Boot\Update\KB_Boot.cab"

 $Add-Windows Package-Path~"D: \OS_11_Custom \Boot \Boot \Mount"-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Path~SKB-Path-Package-Package-Path-Package-Path-Package-Path-Package-Package-Path-Package-Packa$

5.2. 删除

\$KBPath = "D:\OS_11_Custom\Boot\Boot\Update\KB_Boot.cab"

 $Remove-Windows Package - Path "D: \OS_11_Custom \Boot \Boot \Mount" - Package Path $KBPath \Boot \Bo$

5.3. 固化更新,可选项



固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image: "D:\OS_11_Custom\Boot\Boot\Mount" /cleanup-image /StartComponentCleanup /ResetBase

5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"

Get-WindowsPackage -Path $Mount -ErrorAction SilentlyContinue | ForEach-Object {

if ($_.PackageState -eq "Superseded") {

Write-Host " $($_.PackageName)" -ForegroundColor Green

Remove-WindowsPackage -Path $Mount -PackageName $_.PackageName | Out-Null
}
```

6. 驱动,可选

7. 其它

7.1. 绕过 TPM 安装时检查

- Boot.Bypass.TPM.ps1
 - o \Expand\Boot\Boot.Bypass.TPM.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot.Bypass.TP
 M.ps1

• 复制代码

\$RandomGuid = [guid]::NewGuid()

New-PSDrive -PSProvider Registry -Name OtherTasksTPM -Root HKLM -ErrorAction SilentlyContinue | Out-Null

Start-Process reg -ArgumentList "Load ""HKLM\\$(\$RandomGuid)"" ""\$(\$RegSystem)""" -Wait -WindowStyle Hidden -ErrorAction SilentlyContinue

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassCPUCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassStorageCheck" -Value 1 - PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassRAMCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassTPMCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassSecureBootCheck" -Value 1 - PropertyType DWord -Force -ea SilentlyContinue | Out-Null

[gc]::collect()

Start-Process reg -ArgumentList "unload ""HKLM\\$(\$RandomGuid)""" -Wait -WindowStyle Hidden -ErrorAction SilentlyContinue

Remove-PSDrive -Name OtherTasksTPM

8. 保存映像

Save-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount"

9. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount" -Discard

IV 部署引擎

- 了解"自动添加 Windows 系统已安装的语言",学习:https://github.com/ilikeyi/Multilingual,如何下载:
 - 进入网站后,点击"代码","下载压缩包",下载完成后得到 main.zip 压缩包文件。
 - 前往 https://github.com/ilikeyi/Multilingual/releases 下载页面,选择可用版本:1.1.0.4,选择下载源代码格式:zip,下载完成后 得到 Multilingual-1.1.0.4.zip 压缩包文件;
- 将已下载的 main.zip 或 Multilingual-1.1.0.4.zip,解压到:D:\Multilingual-1.1.0.4,重命名:D:\Multilingual
- 学习"无人值守 Windows 安装参考",通过无人值守来干预安装过程。

1. 添加方式

1.1. 添加到 ISO 安装介质

1.1.1. 无人值守

1.1.1.1. 添加到: [ISO]:\Autounattend.xml

引导 ISO 安装时, Autounattend.xml 干预 WinPE 安装程序。

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_11\Autounattend.xml

 $\label{lem:copy-ltem:def} \begin{tabular}{ll} Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" - Destination "D:\OS_11\Autounattend.xml" - Force \end{tabular}$

1.1.1.2. 添加到: [ISO]:\Sources\Unattend.xml



挂载或解压 ISO 时,运行 [ISO]:\Setup.exe 安装程序后,[ISO]:\Sources\Unattend.xml 将干预安装过程。

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_11\Sources\Unattend.xml

 $\label{lem:copy-lem:def} $$\operatorname{D:\Multilingual\Unattend\Mul.Unattend.xml"-Destination "D:\OS_11\Sources\Unattend.xml"-Destination "D:\OS_11\Sources\Unatte$

1.1.1.3. 添加到: [ISO]:\sources\\$OEM\$\\$\$\Panther\unattend.xml

安装过程中复制到系统盘里,复制到:{系统盘}:\Windows\Panther\unattend.xml

1.1.1.3.1. 创建 \$OEM\$ 路径

New-Item -Path "D:\OS_11\sources\` \$OEM\$\` \$\$\Panther" -ItemType Directory

1.1.1.3.2. 复制

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到

D:\OS_11\Sources\\$OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\sources\` \$OEM\$\` \$\$\Panther\Unattend.xml" -Force

1.1.2. 部署引擎:添加

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_11\sources\\$OEM\$\\$1\Yi\Engine 目录里。

1.1.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_11\Sources\\$OEM\$\\$1\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS_11\sources\` \$OEM\$\` \$1\Yi\Engine" -Recurse - Force

1.1.2.2. 部署引擎: 自定义部署标记

\$Flag = @(

"Is_Mark_Sync" # 允许全盘搜索并同步部署标记

先决部署

- # "Auto_Update" # 允许自动更新
- # "Use_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持

"Disable_Network_Location_Wizard" # 网络位置向导

"Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务



```
"Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包
 "Disable_Cleanup_Unsed_Language"#阻止清理未使用的语言包
 "Prerequisites_Reboot" # 重新启动计算机
 #完成首次部署
# "Popup_Engine" # 允许首次弹出部署引擎主界面
# "Allow_First_Pre_Experience" # 允许首次预体验,按计划
 "Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限
 "Clear_Solutions"#删除整个解决方案
 "Clear_Engine"#删除部署引擎,保留其它
# "First_Experience_Reboot" # 重新启动计算机
ForEach ($item in $Flag) {
 Write-host " $($item)" -ForegroundColor Green
 ErrorAction SilentlyContinue | Out-Null
 ErrorAction SilentlyContinue
```

1.2. 添加到已挂载

通过"自定义部署映像: Install.wim",执行"开始挂载 Install.wim",挂载到: D:\OS_11_Custom\Install\Install\Mount

1.2.1. 无人值守

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_11_Custom\Install\Install\Mount\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11_Custom\Install\Install\Mount\Panther" -Force

1.2.2. 部署引擎

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_11_Custom\Install\Install\Mount\Yi\Engine 目录里。

1.2.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_11_Custom\Install\Install\Mount\Yi\Engine



1.2.2.2. 部署引擎: 自定义部署标记

```
$Flag = @(
       "Is_Mark_Sync" # 允许全盘搜索并同步部署标记
       # 先决部署
# "Auto_Update" # 允许自动更新
# "Use_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持
       "Disable_Network_Location_Wizard" # 网络位置向导
       "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务
       "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包
       "Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包
       "Prerequisites_Reboot" # 重新启动计算机
       #完成首次部署
# "Popup_Engine" # 允许首次弹出部署引擎主界面
# "Allow_First_Pre_Experience" # 允许首次预体验,按计划
       "Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限
       "Clear_Solutions"#删除整个解决方案
       "Clear_Engine"#删除部署引擎,保留其它
# "First_Experience_Reboot" # 重新启动计算机
ForEach ($item in $Flag) {
       Write-host " $($item)" -ForegroundColor Green
       New-Item-Path "D: \OS\_11\_Custom \Install \Install \Mount \Yi \Engine \Deploy \Allow "-Item Type Directory-Item Type Director
ErrorAction SilentlyContinue | Out-Null
       Out-File - File Path "D: \OS_11\_Custom \Install \Mount \Yi \Engine \Deploy \Allow \$(\$item)" - Encoding \Allow \
utf8 - Error Action Silently Continue
```

2. 部署引擎: 进阶

2.1. 部署引擎:添加过程中

在复制部署引擎后,可添加部署标记来干预安装过程。

2.2. 无人值守方案

自定义无人值守时,以下文件存在时请同步修改:

- D:\OS_11\Autounattend.xml
- D:\OS_11\Sources\Unattend.xml
- D:\OS_11\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS_11_Custom\Install\Install\Mount\Panther\Unattend.xml

2.2.1. 多语言或单语

多语言时,单语时,可互相切换,替换时,请替换文件里所有相同的。

2.2.1.1. 多语言

- <UILanguage>%OSDUILanguage%</UILanguage>
- <InputLocale>%OSDInputLocale%</inputLocale>
- $<\!\!SystemLocale\!\!>\!\!\%OSDSystemLocale\!\!>\!\!<\!\!/SystemLocale\!\!>\!\!$
- <UILanguage>%OSDUILanguage%</UILanguage>
- $<\!\!\mathsf{UILanguageFallback}\!\!>\!\!\mathsf{MOSDUILanguageFallback}\!\!>\!\!\mathsf{MOS$
- <UserLocale>%OSDUserLocale%</UserLocale>

2.2.1.2. 单语

单语需指定区域,例如指定区域: zh-CN

- <UILanguage>zh-CN</UILanguage>
- <InputLocale>zh-CN</InputLocale>
- <SystemLocale>zh-CN</SystemLocale>
- <UILanguage>zh-CN</UILanguage>
- <UILanguageFallback>zh-CN</UILanguageFallback>
- <UserLocale>zh-CN</UserLocale>

2.2.2. 用户方案

默认使用自建用户 Administrator 并自动登录,可通过修改以下配置切换:自建、自定义用户。



2.2.2.1. 自建用户 Administrator

默认使用自建用户:Administrator并自动登录,插入到 <OOBE> 和 </OOBE> 之间。

```
<UserAccounts>
 <LocalAccounts>
   <LocalAccount wcm:action="add">
     <Password>
      <Value></Value>
      <PlainText>true</PlainText>
     </Password>
     <Description>Administrator/Description>
     <DisplayName>Administrator</DisplayName>
     <Group>Administrators</Group>
     <Name>Administrator</Name>
   </LocalAccount>
 </LocalAccounts>
</UserAccounts>
<AutoLogon>
 <Password>
   <Value></Value>
   <PlainText>true</PlainText>
 </Password>
 <Enabled>true</Enabled>
 <us>Username>Administrator</username>
</AutoLogon>
```

2.2.2.2. 自定义用户

设置自定义用户后,安装系统完成后,在 OOBE 里,可选择本地、在线用户等设置。

2.2.2.2.1. 删除

用户名:从开始处删除 <UserAccounts> 到 </UserAccounts>

自动登录:从开始处删除 < AutoLogon > 到 < / AutoLogon >

2.2.2.2.2. 替换



从开始处 <OOBE> 到 </OOBE>

<OOBE>

<ProtectYourPC>3</ProtectYourPC>

<HideEULAPage>true</HideEULAPage>

<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

- D. ISO
 - II 生成 ISO
 - 1. 下载 OScdimg

根据架构选择 Oscdimg 版本,下载后保存到: D:\, 保存在其它路径请输入 OScdimg.exe 绝对路径;

</OOBE>

1.1. x64

https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/amd64/oscdimg.exe

1.2. x86

https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/x86/oscdimg.exe

1.3. arm64

https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/arm64/oscdimg.exe

- 2. 使用 oscdimg 命令行生成一个 ISO 文件,保存到:D:\Win11.iso
 - ISO.ps1
 - o \Expand\ISO.ps1
 - 复制代码

```
$Oscdimg = "D:\Oscdimg.exe"

$ISO = "D:\OS_11"

$Volume = "OS_11"

$SaveTo = "D:\OS_11.iso"

$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""$($Volume)""", "-bootdata:2#p0,e,b""$($ISO)\boot\etfsboot.com""#pEF,e,b""$($ISO)\efi\microsoft\boot\efisys.bin""", $ISO, $SaveTo)

Start-Process -FilePath $Oscdimg -ArgumentList $Arguments -wait -nonewwindow
```

III 绕过 TPM 安装检查,可选

- 1. 了解 https://github.com/AveYo/MediaCreationTool.bat/tree/main/bypass11 并下载: Quick_11_iso_esd_wim_TPM_toggle.bat
- 2. 将 D:\OS_11.iso 文件托到 Quick_11_iso_esd_wim_TPM_toggle.bat 里,反序"添加"或"删除"TPM 安装时检查功能。

章节2 报告

编组缩写:

- 群组 A: Windows 11 教育版、Windows 11 企业版、Windows 11 专业版、Windows 11 专业教育版、Windows 11 专业版工作站、Windows 11 IoT 企业版
- 群组 B:Windows 11 教育版 N、Windows 11 企业版 N、Windows 11 专业版 N、Windows 11 专业教育版 N、Windows 11 专业版工作站 N
- 群组 C: Windows 11 家庭版、Windows 11 家庭单语版
- 群组 D: Windows 11 家庭版 N

II 不同版本

1.	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317	
2.	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	
3.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	А, В
4.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	
5.	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
6.	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
7.	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382	A, B, C, D
8.	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
9.	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
10.	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
11.	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
12.	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
13.	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
14.	Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
15.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1	A, B, C, D
16.	Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
17.	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D 第68页 共75页

18.	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
19.	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
20.	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
21.	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
22.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
23.	Microsoft-Windows -Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
24.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
25.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
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26.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
27.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
28.	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
29.	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
29. 30.	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D A, B, C, D
30.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D A, B, C, D
30. 31. 32.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D A, B, C, D
30. 31. 32. 33.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D A, B, C, D A, B, C, D
30. 31. 32. 33.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30.31.32.33.34.35.36.37.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35. 36. 37.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35. 36. 37. 38.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwse00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35. 36. 37. 38.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netws64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35. 36. 37. 38. 40.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30. 31. 32. 33. 34. 35. 36. 37. 38. 40. 41.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D

46.	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
47.	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
48.	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
49.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
50.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
51.	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
52.	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
53.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
54.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
55.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
56.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621	A, B, C, D
57.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
58.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
59.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
60.	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
61.	Package_for_DotNetRollup_481~31bf3856ad364e35~amd64~~10.0.9065.6	A, B, C, D
62.	Package_for_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13	A, B, C, D
63.	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0	A, B, C, D
语言	安装包适用于:Install.wim	
1.	Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
2.	Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab	A,C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
3.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	А, В
	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
4.	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
5.	Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab	A, B, C, D
	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	

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6.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1	
7.	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
8.	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
9.	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
10.	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
11.	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
12.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
13.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
14.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
15.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
16.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
17.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
18.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
19.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
20.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
21.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	

语言安装包适用于: WinRE.wim

IV

1. WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.22621.1

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

3. winpe-appxdeployment_zh-CN.cab

 $Win PE-Appx Deployment-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

4. winpe-appxpackaging_zh-CN.cab

WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

5. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

6. winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

7. winpe-audiodrivers_zh-CN.cab

 $Win PE-Audio Drivers-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

8. winpe-enhancedstorage_zh-CN.cab

WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

9. winpe-hta_zh-CN.cab

WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. winpe-narrator_zh-CN.cab

 $Win PE-Narrator-Package {\sim} 31bf 3856 ad 364 e 35 {\sim} amd 64 {\sim} zh-CN {\sim} 10.0.22621.1$

11. winpe-opcservices_zh-CN.cab

 $Win PE-Opc Services-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

12. winpe-rejuv_zh-CN.cab

 $Win PE-Rejuv-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

13. winpe-scripting_zh-CN.cab

 $Win PE-Scripting-Package \sim 31bf3856ad364e35 \sim amd64 \sim zh-CN \sim 10.0.22621.1$

14. winpe-securestartup_zh-CN.cab

 $Win PE-Secure Startup-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

15. winpe-speech-tts_zh-CN.cab

 $Win PE-Speech-TTS-Package {\tt ~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1}$

16. winpe-srh_zh-CN.cab

 $Win PE-SRH-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

17. winpe-srt_zh-CN.cab

 $Win PE-SRT-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

18. winpe-storagewmi_zh-CN.cab

WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

19. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

20. winpe-wifi_zh-CN.cab

WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

21. winpe-windowsupdate_zh-CN.cab

 $Win PE-Windows Update-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

22. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

V 语言安装包适用于: Boot.wim

1. WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.22621.1

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

3. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

4. winpe-audiocore_zh-CN.cab

 $Win PE-Audio Core-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

5. winpe-audiodrivers_zh-CN.cab

 $Win PE-Audio Drivers-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

6. winpe-enhancedstorage_zh-CN.cab

 $Win PE-Enhanced Storage-Package \sim 31bf3856ad364e35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

7. winpe-narrator_zh-CN.cab

 $Win PE-Narrator-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

8. winpe-scripting_zh-CN.cab

 $Win PE-Scripting-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

9. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. WINPE-SETUP-CLIENT_zh-CN.CAB

WinPE-Setup-Client-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

11. WinPE-Setup_zh-CN.cab

WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

12. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

13. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

14. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

15. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

16. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

章节3 常见问题

II 清理所有挂载到

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:linear_loss} Dismount-WindowsImage - Path "D: \OS_11_Custom \Install \Install \Mount" - Discard$

Dismount-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -Discard

Dismount-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount" -Discard

III 修复挂载出现异常的问题

1. 查看已挂载

Get-WindowsImage -Mounted

2. 删除保存在注册表里的 DISM 挂载记录

Remove-Item -Path "HKLM:\SOFTWARE\Microsoft\WIMMount\Mounted Images*" -Force -Recurse -ErrorAction SilentlyContinue | Out-Null

3. 删除与已损坏的已装载映像关联的所有资源。

Clear-WindowsCorruptMountPoint

Dism /cleanup-wim

Ⅳ 清理目录

Remove-Item "D:\OS_11_Custom" -Force -Recurse

 $Remove-Item "D: \OS_11 \setminus Sources \` \$OEM\$" - Force - Recurse$

Remove-Item -Path "D:\OS_11\Autounattend.xml" -Force

章节4 已知问题

暂无

作者: Yi

网站: https://fengyi.tel

邮箱: 775159955@qq.com, ilikeyi@outlook.com

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建议或反馈: https://github.com/ilikeyi/solutions/issues

