WINDOWS 11 22H2

详解 Windows 11 22H2 如何离线封装多语言制作流程,在本文中,分为多个部分来完成制作。

目录

一、部署映像

- A. 先决条件
- B. 语言包: 提取
- C. 自定义部署映像
- D. ISO
- 二、常见问题
- 三、已知问题
- 四、 组件: 对比

一、 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 获取相关包

学习"附件: OS", 查看"Windows 11"项,

1. 系统安装包

- 1.1. 准备: en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso
- 1.2. 解压到: D:\en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c
- 1.3. 解压完成后,将目录 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c 更改为 D:\OS11
- 1.4. 所有脚本、所有路径,已默认设置为 D:\OS11 为映像来源。

2. 语言包

2.1. 学习 "将语言添加到 Windows 11 映像"

- 2.2. 下载语言包: 22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso 2.3. 任选一个网站并打开: • https://uupdump.net https://uup.ee 2.3.1. 打开后,搜索关键词:22621.382,在搜索结果选择:Windows 11, version 22H2 (22621.382) amd64 打开后,选择"全部文件"; 2.3.2. 在"全部文件"页面里依次搜索绿色部分并下载: 2.3.3. 2.3.3.1. 适用于: Install.wim (1项) 2.3.3.1.1. Media 适用于:WinRE.wim,暂无 2.3.3.2. 2.3.3.3. 适用于:Boot.wim,暂无 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)"; 2.3.4. 2.4. 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; InBox **Apps** 3.1. 下载: 22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso 3.2. 下载: 22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 后,提取以下文件后保存到桌面: 3.2.1. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx 3.2.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml 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 3.3.
- [ISO]:\packages 目录里;
- II 运行 PS 命令行时:

3.

- 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;

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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 准备语言包

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

Ⅲ 提取语言包方案

1. 添加

1.1. 语言名称: 简体中文 - 中国,语言标记: 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,语言标记: en-US,适用范围: Install.Wim, Boot.Wim, WinRE.Wim

∨ 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:\"

复制代码或查看源文件: Extract.ps1(本地, Github)

```
$ISO = "Auto"

$SaveTo = "D:\OS11_Custom"

$Extract_language_Pack = @(
    @{
        Tag = "zh-CN"
        Act = "Add"
        Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot")
    }
    @{
        Tag = "en-US"
        Act = "Del"
        Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot")
    }
)

Function Extract_Language
{
    param
    (
        $Act, $NewLang, $Expand
```

Yi's Solutions, v1.0 第3页 共42页

```
Function Extract_Process
{
    param
        $Package, $Name, $NewSaveTo
    \ensuremath{$\text{NewSaveTo}}\
    New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
    if ($ISO -eq "Auto") {
        Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
           ForEach ($item in $Package) {
               TempFilePath = Join-Path - Path _.Root - ChildPath  item - Error Action Silently Continue
              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 {
           Write-host " Not found: "-NoNewLine
           Write-host $Path -ForegroundColor Red
$AdvLanguage = @(
    @{
       Path = "Install\Install"
        Rule = @(
           "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-Package~31bf3856ad364e35~AMD64~~.cab"
           "LanguagesAndOptionalFeatures\Microsoft-Windows-Client-Language-Pack_x64_{Lang}.cab"
           "Languages And Optional Features \verb|\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package \verb|\algoes-31bf3856ad364e35 \verb|\AMD64 \verb|\algoes-anguageFeatures-Basic-{Lang}-Package \verb|\algoes-31bf3856ad364e35 \verb|\algoes-anguageFeatures-Basic-{Lang}-Package \verb|\algoes
            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
```

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"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"

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第5页 共42页

"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-narrator_{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"
    switch -regex ($NewLang) {
        "ar-AE|ar-BH|ar-DJ|ar-DZ|ar-EG|ar-ER|ar-IL|ar-IQ|ar-JO|ar-KM|ar-KW|ar-LB|ar-LY|ar-MA|ar-MR|ar-OM|ar-PS|ar-QA|ar-SA|ar-SD|ar-SO|ar-SS|ar-
SY|ar-TD|ar-TN|ar-YE|arz-Arab|ckb-Arab|fa-AF|fa-IR|glk-Arab|ha-Arab|ks-Arab|ks-Arab-IN|ku-Arab|ku-Arab-IQ|mzn-Arab|pa-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab-IQ|mzn-Arab|pa-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|mzn-Arab-IQ|
PK|pnb-Arab|prs-AF|prs-Arab|ps-AF|sd-Arab|sd-Arab-PK|tk-Arab|ug-Arab|ug-CN|ur-IN|ur-PK|uz-Arab|uz-Arab-AF" { $NewDiyLanguage = "Arab" }
        "as-IN|bn-BD|bn-IN|bpy-Beng" { $NewDiyLanguage = "Beng" }
        "da-dk|iu-Cans|iu-Cans-CA" { $NewDiyLanguage = "Cans" }
        "chr-Cher-US|chr-Cher" { $NewDiyLanguage = "Cher" }
        "bh-Deva|brx-Deva|brx-IN|hi-IN|ks-Deva|mr-IN|ne-IN|ne-NP|new-Deva|pi-Deva|sa-Deva|sa-IN" \ \{ NewDiyLanguage = "Deva" \} \ ( Particle of the property of the p
        "am-ET|byn-ER|byn-Ethi|ti-ER|ti-ET|tig-ER|tig-Ethi|ve-Ethi|wal-ET|wal-Ethi" { $NewDiyLanguage = "Ethi" }
        "gu-IN" { $NewDiyLanguage = "Gujr" }
        "pa-Guru|pa-IN" { $NewDiyLanguage = "Guru" }
        "cmn-Hans|gan-Hans|hak-Hans|wuu-Hans|yue-Hans|zh-CN|zh-gan-Hans|zh-hak-Hans|zh-Hans|zh-SG|zh-wuu-Hans|zh-yue-Hans"
{ $NewDiyLanguage = "Hans" }
        "cmn-Hant|hak-Hant|lzh-Hant|zh-hak-Hant|zh-Hant|zh-HK|zh-lzh-Hant|zh-MO|zh-TW|zh-yue-Hant" { $NewDiyLanguage = "Hant" }
        "he-IL|yi" { $NewDiyLanguage = "Hebr" }
        "ja-JP" { $NewDiyLanguage = "Jpan" }
        "km-KH" { $NewDiyLanguage = "Khmr" }
        "kn-IN" { $NewDiyLanguage = "Knda" }
        "ko-KR" { $NewDiyLanguage = "Kore" }
        "de-de|lo-LA" { $NewDiyLanguage = "Laoo" }
        "ml-IN" { $NewDiyLanguage = "Mlym" }
        "or-IN" { $NewDiyLanguage = "Orya" }
        "si-LK" { $NewDiyLanguage = "Sinh" }
        "tr-tr|arc-Syrc|syr-SY|syr-Syrc" { $NewDiyLanguage = "Syrc" }
        "ta-IN|ta-LK|ta-MY|ta-SG" { $NewDiyLanguage = "Taml" }
        "te-IN" { $NewDiyLanguage = "Telu" }
        "th-TH" { $NewDiyLanguage = "Thai" }
        default { $NewDiyLanguage = "skip_$($NewLanguage)_" }
    Foreach ($item in $Expand) {
        $Language = @()
        Foreach ($itemList in $AdvLanguage) {
            if ($itemList.Path -eq $item) {
                Foreach ($PrintLang in $itemList.Rule) {
                   $Language += "$($PrintLang)".Replace("{Lang}", $NewLang).Replace("{DiyLang}", $NewDiyLanguage)
               }
                Extract_Process - NewSaveTo $itemList.Path - Package $Language - Name $item
```

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```
ForEach ($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:\OS11\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

New-Item -Path "D:\OS11_Custom\Install\Install\Mount" -ItemType directory -ea SilentlyContinue

3. 开始挂载 Install.wim

默认索引号: 1

\$Index = "1"

 $Mount-Windows Image - Image Path "D: \OS11 \setminus Sources \setminus Index \\ Sindex - Path "D: \OS11 _ Custom \setminus Install \setminus Mount" \\ Index \\ Sindex - Path "D: \OS11 _ Custom \setminus Install \setminus Inst$

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;

映像名称、映像描述、映像大小、架构、版本、索引号等;

• 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

```
$ViewFile = "D:\OS11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"
Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {
   Get-WindowsImage -ImagePath $ViewFile -index $_.ImageIndex
}
```

Yi's Solutions, v1.0 第7页 共42页

3.1.2. 指定挂载 WinRE.wim 路径

New-Item -Path "D:\OS11_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

\$Index = "1"

 $\label{thm:local_mount_windows} Mount-Windows \end{tabular} $$\operatorname{Path "D:\OS11_Custom\Install\WinRE\Mount"} $$\operatorname{Index $Index -Path "D:\OS11_Custom\Install\WinRE\Mount"} $$$

3.1.4. 语言包

自动安装语言包:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

3.1.4.1. 语言包:添加

```
复制代码或查看源文件: WinRE.Instl.lang.ps1 (本地, Github)
$Mount = "D:\OS11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS11_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"; }

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```
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
   }
```

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

 $\label{lem:limit} \mbox{Dism/Image:"D:\OS11_Custom\Install\WinRE\Mount"/Set-AllIntl:zh-CN} \label{lem:limit}$

3.1.4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS11_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",语言标记: en-US,需提前提取语言包

复制代码或查看源文件: WinRE.Del.Specified.lang.Tag.ps1 (本地, Github)

```
$Lang = "en-US"

$Mount = "D:\OS11_Custom\Install\WinRE\Mount"

$Sources = "D:\OS11_Custom\Install\WinRE\Language\Del\en-US"

$Initl_install_Language_Component = @()

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

$Initl_install_Language_Component += $_.PackageName
```

Yi's Solutions, v1.0 第9页 共42页

```
1
```

```
$Language = @(
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$($Lang).cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$($Lang).cab"; }
  @{ Match = "*hta*"; File = "winpe-hta_$($Lang).cab"; }
  @{ Match = "*opcservices*"; File = "winpe-opcservices_$($Lang).cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_$($Lang).cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_$($Lang).cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$($Lang).cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$($Lang).cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$($Lang).cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$($Lang).cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_$($Lang).cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_$($Lang).cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$($Lang).cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_$($Lang).cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_$($Lang).cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$($Lang).cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$($Lang).cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_$($Lang).cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_$($Lang).cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_$($Lang).cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($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
```

Yi's Solutions, v1.0 第10页 共42页

```
try {
                        Remove-Windows Package - Path $Mount - Package Path "$(\$Sources) \ (\$Rule.File)" - Error Action Package Path "$(\$Rule.File)" - Error Action Package Path "$(Rule.File)" - Error Action Package Path "$(Rule.File)" - Error Action Package Path "$(Rule.File)" - Error Action Package Path "$(
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-Appx Provisioned Package-Path \$ Mount-Package Name \$ item-Error Action Silently Continue
| Out-Null
                  Write-host "Finish" -ForegroundColor Green
            } catch {
                  Write-host "Failed" -ForegroundColor Red
                  Write-host " $($_)" -ForegroundColor Red
            }
```

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

Yi's Solutions, v1.0 第11页 共42页

}

3.1.4.4. 组件

3.1.4.4.1. 查看

Get-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" | Out-GridView

3.1.4.4.2. 导出到 Csv

\$SaveTo = "D:\OS11_Custom\Install\WinRE\Report.\$(Get-Date -Format
"yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" | Export-CSV NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

3.1.5. 更新,可选

准备可用的更新文件,请更改示例文件名: KB_WinRE.cab

3.1.5.1. 添加

\$KBPath = "D:\OS11_Custom\Install\WinRE\Update\KB_Boot.cab"

Add-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" -PackagePath \$KBPath

3.1.5.2. 删除

\$KBPath = "D:\OS11_Custom\Install\WinRE\Update\KB_Boot.cab"

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:\OS11_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:\OS11_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
```

Yi's Solutions, v1.0 第12页 共42页

3.1.6. 驱动,可选

3.1.7. 保存映像

Save-WindowsImage -Path "D:\OS11_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:\OS11_Custom\Install\WinRE\Mount" -Discard

3.1.9. 重建 WinRE.wim 后,可缩小文件大小

```
复制代码或查看源文件: WinRE.Rebuild.ps1(本地, Github)
```

```
FileName = "D:\OS11\_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 $_.ImageIndex -ForegroundColor Yellow
 Write-Host "`n Rebuild".PadRight(28) -NoNewline
  {\bf Export\text{-}WindowsImage\text{-}SourceImagePath\text{\,\$Filename\text{-}SourceIndex\text{\,\$\_.}ImageIndex\text{-}DestinationImagePath\text{\,}}}
"$($FileName).New" -CompressionType max
 Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($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

复制代码或查看源文件: WinRE.Backup.ps1(本地, Github)

```
$WimLibPath = "D:\OS11_Custom\Install\Install\Update\Winlib"
$FileName = "D:\OS11_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"。

Yi's Solutions, v1.0 第13页 共42页

4. 语言包

自动安装语言包:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

4.1. 语言包:添加

```
复制代码或查看源文件: Install.Instl.lang.ps1 (本地, Github)
$Mount = "D:\OS11_Custom\Install\Install\Mount"
$Sources = "D:\OS11_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-
 @{ 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-
```

Yi's Solutions, v1.0 第14页 共42页

```
@{ 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"; }
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
```

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

 $\label{lem:limit} Dism\/lmage: "D:\OS11_Custom\/lnstall\/lnstall\/Mount"\/Set-AllIntl: zh-CN$

4.2.2. 查看可用的语言设置

 $\label{lem:linstall} Dism / Image: "D: \OS11_Custom \Install \Install \Mount" / Get-Intlem: \Custom \Additional \Custom \Additional \Custom \Additional \Custom \Additional \Additional \Custom \Additional \Custom \Additional \Additional \Custom \Additional \Custom \Additional \Additional \Custom \Additional \Additional \Custom \Additional \Additional \Custom \Additional \Custom \Additional \Additional$

Yi's Solutions, v1.0 第15页 共42页

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",语言标记: en-US,需提前提取语言包

复制代码或查看源文件: Install.Del.Specified.lang.Tag.ps1(本地, Github)

```
$Lang = "en-US"
$Mount = "D:\OS11_Custom\Install\Install\Mount"
Sources = D:OS11_Custom Install Install Language Delen-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"; }
```

Yi's Solutions, v1.0 第16页 共42页

@{ 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
     }
```

Yi's Solutions, v1.0 第17页 共42页

```
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-Appx Provisioned Package - Path \$ Mount - Package Name \$ item - Error Action Silently Continue \mid Out-Null - Package Name + Package - Path + Package Name + Package - Path + Package - Pa
                      Write-host "Finish" -ForegroundColor Green
               } catch {
                      Write-host "Failed" -ForegroundColor Red
                      Write-host " $($_)" -ForegroundColor Red
```

4.4. 组件

4.4.1. 查看

 $Get-Windows Package - Path "D: \OS11_Custom \Install \Install \Mount" \mid Out-Grid View$

4.4.2. 导出到 Csv

\$SaveTo = "D:\OS11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

Yi's Solutions, v1.0 第18页 共42页

5. InBox Apps

5.1. 学习"附件: inBox Apps"

了解不同的操作系统预安装应用,应用商店连接。

5.2. InBox Apps: 已安装

5.2.1. 查看

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Out-GridView

5.2.2. 导出到 Csv

\$SaveTo = "D:\OS11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11_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

复制代码或查看源文件: Install.InBox.Appx.Clear.all.ps1 (本地, Github)

```
Get-AppXProvisionedPackage -path "D:\OS11_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {
    Write-host "`n $($_.DisplayName)"
    Write-Host " Deleting ".PadRight(22) -NoNewline

    try {
        Remove-AppxProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

    ErrorAction SilentlyContinue | Out-Null
        Write-host "Finish" -ForegroundColor Green
    } catch {
        Write-host "Failed" -ForegroundColor Red
    }
}
```

5.4. 语言标记: 了解

了解语言标记前,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

 $\label{lem:linstall} Dism / Image: "D: \OS11_Custom \Install \Install \Mount" / Get-Intlem: \OS11_Custom \Install \Additional \Additional \Barrier \Additional \Barrier \Barrier \Additional \Barrier \$

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,这就是语言标记。

Yi's Solutions, v1.0 第19页 共42页

5.5. 语言标记: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,要想获取离线安装包:

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:\OS11_Custom\Install\InBox.Appx, 文件格式: LanguageExperiencePack.zh-CN.Neutral.Appx

5.5.2.2. 手动下载

5.5.2.2.1. 查看 "附件: LXPs"

等待下载"简体中文 - 中国"的本地语言体验包(LXPs),语言标记: zh-CN,应用程序ID: 9NRMNT6GMZ70,网站连接:

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:

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

Microsoft.LanguageExperiencePackzh-CN_22621.*. neutral__8wekyb3d8bbwe.appx

5.5.2.2.2.3. 下载后保存到 D:\OS11_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)

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

Add-AppxProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackagePath "D:\OS11_Custom\Install\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

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Out-GridView

Yi's Solutions, v1.0 第 20 页 共 42 页

5.5.2.4.2. 导到出 Csv

```
$SaveTo = "D:\OS11_Custom\Install\Install\Report.$(Get-Date -Format
"yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11_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

\$ISO = "Auto"

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"

复制代码或查看源文件: Install.Inst.InBox.Appx.ps1(本地, Github)

```
$Mount = "D:\OS11_Custom\Install\Install\Mount"
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 = @(
 @{
   Name = @(
     "Core"; "CoreN"; "CoreSingleLanguage";
   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.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
```

"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";

"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms";

"Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";

"Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder";

"Microsoft.BingWeather"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People";

Yi's Solutions, v1.0 第21页 共42页

```
"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"; "IoTEnterprise";
"ServerRdsh";
   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.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms";
"Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews";
"Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";
"Microsoft.BingWeather"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People";
"Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos";
"Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder";
"Microsoft.Xbox.TCUI"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay";
"Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone";
"Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
"Microsoft.RawImageExtension";
 @{
   Name = @(
     "EnterpriseN"; "EnterpriseGN"; "EnterpriseSN"; "ProfessionalN"; "EducationN"; "ProfessionalWorkstationN";
"ProfessionalEducationN"; "CloudN"; "CloudEN"; "CloudEditionN"; "CloudEditionLN"; "StarterN";
   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.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch";
"Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp";
"Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub";
"Microsoft.WindowsMaps"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera";
"Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay";
"Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
 }
$Allow_Install_App = @()
ForEach ($item in $Pre_Config_Rules) {
 if ($item.Name -contains $Current_Edition_Version) {
   Write-host "`n Match to: "-NoNewline
   Write-host $Current_Edition_Version -ForegroundColor Green
```

Yi's Solutions, v1.0 第22页 共42页

```
$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
$InBoxApps = @(
 @{ Name = "Microsoft.UI.Xaml.2.3"; File = "Microsoft.UI.Xaml.x64.2.3.appx"; License = ""; }
 @{ Name = "Microsoft.UI.Xaml.2.4"; File = "Microsoft.UI.Xaml.x64.2.4.appx"; License = ""; }
 @{ Name = "Microsoft.UI.Xaml.2.7"; File = "Microsoft.UI.Xaml.x64.2.7.appx"; License = ""; }
 @{ Name = "Microsoft.NET.Native.Framework.2.2"; File = "Microsoft.NET.Native.Framework.x64.2.2.appx"; License =
 @{ Name = "Microsoft.NET.Native.Runtime.2.2"; File = "Microsoft.NET.Native.Runtime.x64.2.2.appx"; License = ""; }
 @{ Name = "Microsoft.VCLibs.140.00"; File = "Microsoft.VCLibs.x64.14.00.appx"; License = ""; }
 @{ Name = "Microsoft.VCLibs.140.00.UWPDesktop"; File = "Microsoft.VCLibs.x64.14.00.UWPDesktop.appx";
License = ""; }
 @{ Name = "Microsoft.WindowsStore"; File = "Microsoft.WindowsStore_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.WindowsStore_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.HEIFImageExtension"; File = "Microsoft.HEIFImageExtension_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.HEIFImageExtension_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.HEVCVideoExtension"; File = "Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx";
License = "Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.SecHealthUI"; File = "Microsoft.SecHealthUI_8wekyb3d8bbwe.x64.appx"; License =
"Microsoft.SecHealthUI_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.VP9VideoExtensions"; File = "Microsoft.VP9VideoExtensions_8wekyb3d8bbwe.x64.appx";
License = "Microsoft.VP9VideoExtensions_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.WebpImageExtension"; File = "Microsoft.WebpImageExtension_8wekyb3d8bbwe.x64.appx";
License = "Microsoft.WebpImageExtension_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.GamingApp"; File = "Microsoft.GamingApp_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.GamingApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Sticky.Notes"; File = "Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe.msixbundle"; License
= "Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Paint"; File = "Microsoft.Paint_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.Paint_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.PowerAutomateDesktop"; File =
"Microsoft.PowerAutomateDesktop_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.PowerAutomateDesktop_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.ScreenSketch"; File = "Microsoft.ScreenSketch_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.ScreenSketch_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsNotepad"; File = "Microsoft.WindowsNotepad 8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsNotepad_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsTerminal"; File = "Microsoft.WindowsTerminal_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsTerminal_8wekyb3d8bbwe.xml"; }
 @{ Name = "Clipchamp.Clipchamp"; File = "Clipchamp.Clipchamp_yxz26nhyzhsrt.msixbundle"; License =
"Clipchamp_yxz26nhyzhsrt.xml"; }
 @{ Name = "Microsoft.Solitaire.Collection"; File =
"Microsoft.MicrosoftSolitaireCollection_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.MicrosoftSolitaireCollection_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsAlarms"; File = "Microsoft.WindowsAlarms_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.WindowsAlarms_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsFeedbackHub"; File =
"Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe.msixbundle"; License =
```

Yi's Solutions, v1.0 第23页 共42页

```
"Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsMaps"; File = "Microsoft.WindowsMaps_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.WindowsMaps_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.ZuneMusic"; File = "Microsoft.ZuneMusic_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.ZuneMusic_8wekyb3d8bbwe.xml"; }
 @{ Name = "MicrosoftCorporationII.MicrosoftFamily"; File =
"MicrosoftCorporationII.MicrosoftFamily_8wekyb3d8bbwe.msixbundle"; License =
"MicrosoftCorporationII.MicrosoftFamily_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.BingNews"; File = "Microsoft.BingNews_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.BingNews_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.DesktopAppInstaller"; File = "Microsoft.DesktopAppInstaller_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.DesktopAppInstaller_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsCamera"; File = "Microsoft.WindowsCamera_8wekyb3d8bbwe.msixbundle"; License
= "Microsoft.WindowsCamera_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Getstarted"; File = "Microsoft.Getstarted_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.Getstarted_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Cortana"; File = "Microsoft.CortanaApp_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.CortanaApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.BingWeather"; File = "Microsoft.BingWeather_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.BingWeather_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.GetHelp"; File = "Microsoft.GetHelp_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.GetHelp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.MicrosoftOfficeHub"; File = "Microsoft.MicrosoftOfficeHub_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.MicrosoftOfficeHub_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.People"; File = "Microsoft.People_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.People_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.StorePurchaseApp"; File = "Microsoft.StorePurchaseApp_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.StorePurchaseApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Todos"; File = "Microsoft.Todos_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.Todos_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WebMediaExtensions"; File =
"Microsoft.WebMediaExtensions_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WebMediaExtensions_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Windows.Photos"; File = "Microsoft.Windows.Photos_8wekyb3d8bbwe.appxbundle"; License
= "Microsoft.Windows.Photos_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsCalculator"; File = "Microsoft.WindowsCalculator_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.WindowsCalculator_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Windows.CommunicationsApps"; File =
"Microsoft.WindowsCommunicationsApps_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WindowsCommunicationsApps_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsSoundRecorder"; File =
"Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Xbox.TCUI"; File = "Microsoft.Xbox.TCUI_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.Xbox.TCUI_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxGameOverlay"; File = "Microsoft.XboxGameOverlay_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.XboxGameOverlay_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxGamingOverlay"; File = "Microsoft.XboxGamingOverlay_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.XboxGamingOverlay_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxIdentityProvider"; File = "Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxSpeechToTextOverlay"; File =
"Microsoft.XboxSpeechToTextOverlay_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.XboxSpeechToTextOverlay_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.YourPhone"; File = "Microsoft.YourPhone_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.YourPhone_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.ZuneVideo"; File = "Microsoft.ZuneVideo_8wekyb3d8bbwe.appxbundle"; License =
```

Yi's Solutions, v1.0 第24页

"Microsoft.ZuneVideo_8wekyb3d8bbwe.xml"; }

```
@{ Name = "MicrosoftCorporationII.QuickAssist"; File =
"MicrosoftCorporationII.QuickAssist_8wekyb3d8bbwe.appxbundle"; License =
"MicrosoftCorporationII.QuickAssist_8wekyb3d8bbwe.xml"; }
 @{ Name = "MicrosoftWindows.Client.WebExperience"; File =
"MicrosoftWindows.Client.WebExperience_cw5n1h2txyewy.appxbundle"; License =
"MicrosoftWindows.Client.WebExperience_cw5n1h2txyewy.xml"; }
 @{ Name = "Microsoft.RawImageExtension"; File = "Microsoft.RawImageExtension_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.RawImageExtension_8wekyb3d8bbwe.xml"; }
Function Install_Appx
 param
   $File,
   $License
 Write-host " $('-' * 80)"
 Write-host " Installing: " -NoNewline
 Write-host $File -ForegroundColor Yellow
 if (Test-Path -Path $File -PathType Leaf) {
   if (Test-Path -Path $License -PathType Leaf) {
     Write-host "License: "-NoNewline
     Write-host $License -ForegroundColor Yellow
     Write-host "With License".PadRight(22) -NoNewline -ForegroundColor Green
     Write-host " Installing".PadRight(22) -NoNewline
     try {
      Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -LicensePath $License -ErrorAction
SilentlyContinue | Out-Null
      Write-Host "Done" -ForegroundColor Green
     } catch {
       Write-Host "Failed" -ForegroundColor Red
       Write-Host " $($_)" -ForegroundColor Yellow
   } else {
     Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
     Write-host " Installing".PadRight(22) -NoNewline
     try {
       Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -SkipLicense -ErrorAction SilentlyContinue |
Out-Null
       Write-Host "Done" -ForegroundColor Green
     } catch {
       Write-Host "Failed" -ForegroundColor Red
      Write-Host " $($_)" -ForegroundColor Yellow
    }
   }
 } else {
   Write-host " The installation package does not exist" -ForegroundColor Red
ForEach ($Rule in $InBoxApps) {
 Write-host "`n Name: "-NoNewline
```

Yi's Solutions, v1.0 第 25 页 共 42 页

```
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.File -ForegroundColor Yellow
     Write-host "Search for License: "-NoNewline
     Write-host $Rule.File -ForegroundColor Yellow
     if ($ISO -eq "Auto") {
          {\sf Get-PSDrive} \textbf{ -PSProvider FileSystem -} \textbf{ErrorAction SilentlyContinue} \textbf{ | For Each-Object \{ a substitution of the provided of the pr
              $AppPath = Join-Path -Path $_.Root -ChildPath "packages\$($Rule.File)" -ErrorAction SilentlyContinue
              if (Test-Path $AppPath -PathType Leaf) {
                  Write-host " $('-' * 80)"
                  Write-host " Discover apps: " -NoNewLine
                   Write-host $AppPath -ForegroundColor Green
                  if (Test-Path $LicensePath -PathType Leaf) {
                       Write-host " Discover License: "-NoNewLine
                       Write-host $LicensePath -ForegroundColor Green
                   } else {
                       Write-host "License: "-NoNewLine
                       Write-host "Not found" -ForegroundColor Red
                  Install_Appx -File $AppPath -License $LicensePath
                   return
         }
    } else {
         Install_Appx -File "$($ISO)\$($Rule.File)" -License "$($ISO)\$($Rule.License)"
    }
} else {
    Write-host "Skip the installation" -ForegroundColor Red
```

5.7. 语言标记: 删除

完成安装 InBox Apps 应用后,语言标记已不再重要,可删除或不删除,删除"本地语言体验包(LXPs),简体中文 - 中国)",唯一识别语言标记:zh-CN,可更改为其它语言标记。

复制代码或查看源文件: Install.Clear.Flag.ps1 (本地, Github)

\$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Foreach-object {
 if (\$_.DisplayName -Like "*LanguageExperiencePack*\$(\$Lang)*") {
 Write-host " \$(\$_.DisplayName)"
 Write-Host " 删除中".PadRight(22) -NoNewline

 try {

 $Remove-Appx Provisioned Package - Path "D: \OS11_Custom \Install \Install \Mount" - Package \Name + _. Pac$

Yi's Solutions, v1.0 第 26 页 共 42 页

```
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。

Dism /Image: "D:\OS11_Custom\Install\Install\Mount" /Optimize-ProvisionedAppxPackages

6. 更新

• 推荐你下载最新版,提供初始版本的累积更新,解决同一版本号重新安装后刷新"组件"状态。

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,其它下载方法,任选一个网站并打开:

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

6.1.1.4. 合并累积更新

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

 $Windows 11.0\text{-}KB 5016632\text{-}x64\text{-}full_psfx.cab$

Yi's Solutions, v1.0 第27页 共42页

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

 $D: \label{lem:loss} D: \label{loss} D: \label{loss} D: \label{loss} OS11_Custom \label{loss} Install \label{loss} D: \label{loss} OS11_Custom \label{loss} Install \label{loss} OS11_Custom \label$

6.1.2. 添加

\$KBPath = "D:\OS11_Custom\Install\Install\Update\Windows11.0-KB5016632-x64-full_psfx.cab"

Add-WindowsPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackagePath \$KBPath

6.2. 其它版本

6.2.1. 如何下载

```
查阅 "Windows 11 版本信息" ,例如下载累积更新: KB5030219,前往下载页面:

https://www.catalog.update.microsoft.com/Search.aspx?q=KB5030219 或 "直连下载",保存到:
```

 $\label{lem:loss} D: \OS11_Custom\Install\Install\Update\windoOS11.0-kb5030219-x64_659d407821da654d564a3108bf493594bd143ab1.msu$

6.2.2. 添加

```
$KBPath = "D:\OS11\_Custom\Install\Update\windoOS11.0-kb5030219-x64\_659d407821da654d564a3108bf493594bd143ab1.msu" Add-WindowsPackage - Path "D:\OS11\_Custom\Install\Install\Mount" - PackagePath $KBPath = "D:\OS11\_Custom\Install\Nount" - PackagePath $KBPath = "D:\OS11\_Custom\Install\N
```

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。

 $\label{lem:limit} Dism/Image: "D: \OS11_Custom \Install \Mount" / cleanup-image / Start Component Cleanup / Reset Base / Start \Component \Co$

6.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS11_Custom\Install\Install\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
   }
}
```

7. 驱动,可选

8. 健康

保存前应检查是否损坏,健康状态异常时,中止保存

 $Repair-Windows Image - Path "D: \verb| OS11_Custom \verb| Install \verb| Mount" - ScanHealth| \\$

9. 替换 WinRE.wim

Yi's Solutions, v1.0 第 28 页 共 42 页

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:\OS11_Custom\Install\Install\Update\Winlib\WinRE.wim"

$CopyTo = "D:\OS11_Custom\Install\Install\Mount\Windows\System32\Recovery"

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

10. 保存映像

Save-WindowsImage -Path "D:\OS11_Custom\Install\Install\Mount"

11. 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:\OS11_Custom\Install\Install\Mount" -Discard

循环操作区域,结束。

12. 如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim

12.1. 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

12.2. 如何在 Install.wim 里提取和更新 WinRE.wim

12.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim

复制代码或查看源文件: Install.WinRE.Replace.wim.ps1(本地, Github)

```
$Arguments = @(
   "extract",
   "D:\OS11\sources\install.wim", "1",
   "\Windows\System32\Recovery\Winre.wim",
   "--dest-dir=""D:\OS11_Custom\Install\Install\Update\Winlib"""
)
```

New-Item -Path "D:\OS11_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList \$Arguments -wait -nonewwindow

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

复制代码或查看源文件: Install.WinRE.Replace.wim.ps1(本地, Github)

```
Get-WindowsImage -ImagePath "D:\OS11\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 "
```

Yi's Solutions, v1.0 第29页 共42页

```
$Arguments = @(
    "update",
    "D:\OS11\sources\install.wim", $_.ImageIndex,
    "--command=""add 'D:\OS11_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
```

13. 重建 Install.wim 后可缩小文件大小

```
复制代码或查看源文件: Install.Rebuild.wim.ps1(本地, Github)
```

```
$InstallWim = "D:\OS11\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 $$\{Install Wim\}. New $$-$ index $$-$ inde
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
```

III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

```
$ViewFile = "D:\OS11\Sources\Boot.wim"

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

映像名称、映像描述、映像大小、架构、版本、索引号等;

2. 指定挂载 Boot.wim 路径

New-Item -Path "D:\OS11_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue

3. 开始挂载 Boot.wim

Yi's Solutions, v1.0 第30页 共42页

```
$Index = "2"
```

Mount-WindowsImage -ImagePath "D:\OS11\sources\boot.wim" -Index \$Index -Path "D:\OS11_Custom\Boot\Boot\Mount"

4. 语言包

自动安装语言包:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

4.1. 语言包:添加

```
复制代码或查看源文件: Boot.Instl.lang.ps1 (本地, Github)
$Mount = "D:\OS11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS11_Custom\Boot\Boot\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"
$Language_List = @(
 @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }
 @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 For Each ($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 {
```

Yi's Solutions, v1.0 第31页 共42页

```
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

Dism /Image: "D:\OS11_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS11_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",语言标记: en-US,需提前提取语言包

```
复制代码或查看源文件: Boot.Del.Specified.lang.Tag.ps1 (本地, Github)

$Lang = "en-US"

$Mount = "D:\OS11_Custom\Boot\Boot\Mount"

$Sources = "D:\OS11_Custom\Boot\Boot\Language\Del\en-US"

$InitL_instalL_Language_Component = @()

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

$Language = @(
    @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
    @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
```

Yi's Solutions, v1.0 第32页 共42页

```
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
```

Yi's Solutions, v1.0 第33页 共42页

```
Write-Host " Deleting ".PadRight(22) -NoNewline
                 try {
                       Remove-Windows Package-Path $Mount-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File)"-Error Action Silently Continue | Out-Package Path $(\$Sources) \ (\$Rule.File) \ (\$Rul
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
```

Yi's Solutions, v1.0 第34页 共42页

```
}
```

4.4. 组件,可选

4.4.1. 查看

Get-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" | Out-GridView

4.4.2. 导出到 Csv

\$SaveTo = "D:\OS11_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_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:\OS11_Custom\Install\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

4.5.1.3. w32uires.dll.mui

4.5.2. 复制

将提取的文件复制到: D:\OS11_Custom\Boot\Boot\Mount\sources\zh-CN

4.6. 语言包:同步到 ISO 安装程序

Copy-Item -Path "D:\OS11_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS11\sources\zh-CN" -Recurse -Force

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\Boot\Mount\Sources\lang.ini

 $\label{thm:condition:distribution:D:NOS11_Custom(Boot(Boot(Mount)))} Dism/image: "D:NOS11_Custom(Boot(Boot(Mount))) distribution: "D:NOS11_Custom(Boot(Mount))) distribution: "D:NOS11_Custom(Boot(Mount)) distri$

Yi's Solutions, v1.0 第35页 共42页

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

Dism /image:"D:\OS11_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS11"

5. 更新,可选

准备可用的更新文件,请更改示例文件名: KB_Boot.cab

5.1. 添加

```
$KBPath = "D:\OS11_Custom\Boot\Boot\Update\KB_Boot.cab"

Add-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" -PackagePath $KBPath
```

5.2. 删除

```
$KBPath = "D:\OS11_Custom\Boot\Boot\Update\KB_Boot.cab"

Remove-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" -PackagePath $KBPath
```

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。

 $\label{lem:limit} Dism\/image:"D:\OS11_Custom\/Boot\/Boot\/Mount"\/cleanup-image\/StartComponentCleanup\/ResetBase$

5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS11_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

```
复制代码或查看源文件: Boot.Bypass.TPM.ps1 (本地, Github)

$RegSystem = "D:\OS11_Custom\Boot\Boot\Mount\Windows\System32\Config\SYSTEM"

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

Yi's Solutions, v1.0 第36页 共42页

Write-Host " HKLM:\\$(\$RandomGuid)"

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-Item "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassCPUCheck" -Value 1 -PropertyType

DWord -Force -ea SilentlyContinue | Out-Null

 $New-Item Property - Literal Path "HKLM: \s (\$Random Guid) \s Eup \ Lab Config" - Name "Bypass Storage Check" - Value 1 - Property Type \ Lab Config" - Name "Bypass Storage Check" - Value 1 - Property Type \ Lab Config" - Name "Bypass Storage Check" - Value 1 - Property Type \ Lab Config" - Name "Bypass Storage Check" - Value 1 - Property Type \ Lab Config" - Name \ Lab Config \$

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:\OS11_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:\OS11_Custom\Boot\Boot\Mount" -Discard

D. ISO

II 生成 ISO

- 1. 下载 oscdimg 后,保存到:C:\Windows\System32 目录里,保存在其它路径,或请输入 OScdimg.exe 绝对位置;
- 2. 使用 oscdimg 命令行生成一个 ISO 文件,保存到:D:\Win11.iso

复制代码或查看源文件: ISO.ps1(本地, Github)

\$ISO = "D:\OS11" \$Volume = "OS11"

\$SaveTo = "D:\OS11.iso"

\$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""\$(\$Volume)""", "-

 $bootdata: 2\#p0, e, b""\$(\$ISO) \land boot\effsboot.com""\#pEF, e, b""\$(\$ISO) \land fi\microsoft \land boot\effsys.bin""", \$ISO, \$SaveTo)$

Start-Process -FilePath "OSCdimg.exe" -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:\OS11.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。

Yi's Solutions, v1.0 第37页 共42页

二、常见问题

|| 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。

 $\label{lem:linear_loss} Dismount-WindowsImage - Path "D: \OS11_Custom \Install \Mount" - Discard$

Dismount-WindowsImage -Path "D:\OS11_Custom\Install\WinRE\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

IV 清理自定义目录

 $Remove-Item \ "D: \verb|\OS11_Custom|" - Force - Recurse - Error Action Silently Continue \\$

三、 已知问题

暂无

四、 组件: 对比

安装新的语言包后变化,组件列表:

文表例13店自己历文化,运门为农.			
序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
1	OnDemandPack	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317
2	OnDemandPack	Microsoft-OneCore-DirectX-Database-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-OneCore-DirectX-Database-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
3	LanguagePack	Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.382	Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.382
4	LanguagePack		Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~zh- CN~10.0.22621.382
5	OnDemandPack	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1

Yi's Solutions, v1.0 第 38 页 共 42 页

序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
6	OnDemandPack	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
7	OnDemandPack	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
8	OnDemandPack	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
9	FeaturePack	Microsoft-Windows-FodMetadata- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-FodMetadata- Package~31bf3856ad364e35~amd64~~10.0.22621.1
10	Foundation	Microsoft-Windows-Foundation- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Foundation- Package~31bf3856ad364e35~amd64~~10.0.22621.1
11	OnDemandPack	Microsoft-Windows-Hello-Face- Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-Windows-Hello-Face- Package~31bf3856ad364e35~amd64~~10.0.22621.317
12	OnDemandPack	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1
13	OnDemandPack		Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1
14	OnDemandPack	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~~11.0.22621.1	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~~11.0.22621.1
15	OnDemandPack	Microsoft-Windows-Kernel-LA57-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382	Microsoft-Windows-Kernel-LA57-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382
16	OnDemandPack	Microsoft-Windows-LanguageFeatures-Basic-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-Basic-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
17	OnDemandPack		Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
18	OnDemandPack		Microsoft-Windows-LanguageFeatures-Fonts-Hans- Package~31bf3856ad364e35~amd64~~10.0.22621.1
19	OnDemandPack	Microsoft-Windows-LanguageFeatures-Handwriting-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-Handwriting-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
19	OnDemandPack OnDemandPack		
			Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-
20	OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-
20	OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-
20 21 22	OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-
20 21 22 23	OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-
20 21 22 23 24	OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
20 21 22 23 24 25	OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1
20 21 22 23 24 25 26	OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
20 21 22 23 24 25 26 27	OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-
20 21 22 23 24 25 26 27	OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.317
20 21 22 23 24 25 26 27 28	OnDemandPack	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382	Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.317 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382 Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382

Yi's Solutions, v1.0 第39页 共42页

序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
32	OnDemandPack	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~~10.0.22621.1
33	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
34	OnDemandPack		Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
35	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
36	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
37	OnDemandPack		Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
38	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
39	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
40	OnDemandPack		Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
41	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
42	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
43	OnDemandPack		Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
44	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
45	OnDemandPack	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
46	OnDemandPack		Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
47	OnDemandPack	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
48	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
49	OnDemandPack		Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
50	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~~10.0.22621.1
51	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
52	OnDemandPack		Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
53	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~~10.0.22621.1
54	OnDemandPack	Microsoft-Windows-TabletPCMath- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-TabletPCMath- Package~31bf3856ad364e35~amd64~~10.0.22621.1
55	OnDemandPack	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
56	OnDemandPack	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
57	OnDemandPack	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
58	OnDemandPack	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

Yi's Solutions, v1.0 第40页 共42页

序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
59	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
60	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
61	OnDemandPack	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
62	OnDemandPack	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
63	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
64	OnDemandPack	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
65	OnDemandPack	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
66	OnDemandPack	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
67	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
68	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
69	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
70	OnDemandPack	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
71	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
72	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
73	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
74	OnDemandPack	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
75	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
76	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
77	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
78	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
79	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
80	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
81	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
82	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
83	OnDemandPack		Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
84	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382
85	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1

Yi's Solutions, v1.0 第41页 共42页

序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
86	OnDemandPack		Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
87	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
88	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
89	OnDemandPack		Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
90	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.317
91	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
92	OnDemandPack		Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
93	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
94	OnDemandPack	OpenSSH-Client- Package~31bf3856ad364e35~amd64~~10.0.22621.1	OpenSSH-Client- Package~31bf3856ad364e35~amd64~~10.0.22621.1
95	Update	Package_for_DotNetRollup_481~31bf3856ad364e35~amd6 4~~10.0.9065.6	Package_for_DotNetRollup_481~31bf3856ad364e35~amd6 4~~10.0.9065.6
96	SecurityUpdate	Package_for_RollupFix~31bf3856ad364e35~amd64~~2262 1.382.1.13	Package_for_RollupFix~31bf3856ad364e35~amd64~~2262 1.382.1.13
97	SecurityUpdate	Package_for_ServicingStack_378~31bf3856ad364e35~amd 64~~22621.378.1.0	Package_for_ServicingStack_378~31bf3856ad364e35~amd 64~~22621.378.1.0

Yi's Solutions, v1.0 第42页