# Windows 10 IoT Enterprise 국가 별 OS 설치파일 생성

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기본 언어가 영어인 Windows 10 IoT Enterprise 설치 파일에 국가별 언어 팩 및 언어 설정 정보추가하여 Windows 10 IoT Enterprise 국가별 설치 파일 생성하는 방법에 대해 알아보자.

### √ 준비 사항

- ① Windows 10 IoT Enterprise LTSB/CBB (32bit/64bit)의 install.wim, boot.wim ..\#sources\#install.wim, boot.wim
- ② Windows 10용 Windows ADK, 버전 1607 설치된 개발PC

  <a href="https://developer.microsoft.com/ko-kr/windows/hardware/windows-assessment-deployment-kit">https://developer.microsoft.com/ko-kr/windows/hardware/windows-assessment-deployment-kit</a>
- ③ 설정할 국가의 언어 팩 및 구성요소

#### <mark>언어 팩</mark>:

➤ Multilanguage OPK 내에 x86, x64별 언어 팩 사용 위치 예) volume M (OPK)에서 32bit 한국어 언어 팩 M:₩x86₩langpacks₩Microsoft-Windows-Client-Language-Pack\_x86\_ko-kr.cab

#### 구성요소:

- ➤ Multilanguage OPK 내에 Windows Preinstallation Environment₩x86₩WinPE\_OCs 혹은 Windows Preinstallation Environment₩x64₩WinPE\_OCs 경로에 언어 팩 폴 더 및 font 파일
- ➤ ADK가 설치된 개발 PC에서 C:\#Program Files (x86)\#Windows Kits\#10\#Assessment and Deployment Kit\#Windows Preinstallation Environment 경로에 동일한 파일 및 폴더 있음
- → 구성요소 위치 예) volume M (OPK) 에서의 경로M:₩Windows Preinstallation Environment₩x86₩WinPE\_OCs₩ko-kr

M:\Windows Preinstallation Environment\\x86\WinPE\_OCs\WinPE-FontSupport-KO-KR.cab

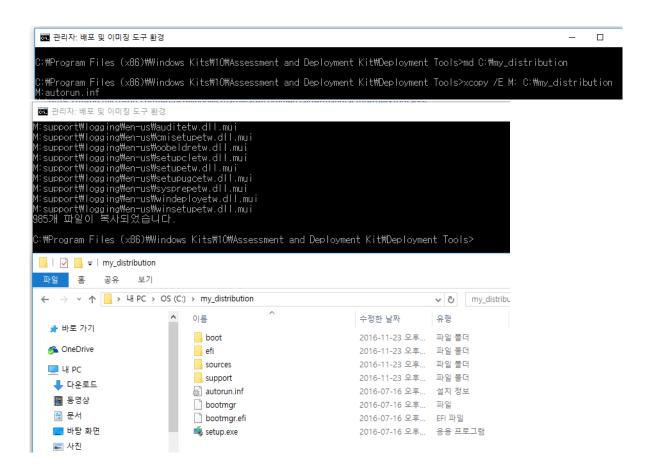
아래 설명된 내용은 <u>Windows 10 IoT Enterprise CBB 32bit, ADK 1607 사용하여 한국어 OS 설치 파</u>일 생성한 과정이다.

#### √ 진행 과정

- 1. Windows ADK가 설치 된 개발 PC에서 배포 및 이미징 도구 환경을 실행한다.
- 2. Windows 10 IoT Enterprise CBB 설치 파일을 로컬 PC에 복사한다.

(M:₩ - Windows 10 IoT Enterprise 설치 미디어 의 볼륨)

md C:₩my\_distribution xcopy /E M: C:₩my\_distribution



3. C:₩my\_distribution₩sources의 boot.wim, install.wim을 각각 C:₩mount₩boot, C:₩mount₩windows 폴더를 생성하여 mount 한다.

md C:\text{\text{mount\text{\text{\text{boot}}}}}

md C:\text{\text{\text{mount-image}} / imagefile:C:\text{\text{\text{my\_distribution\text{\text{\text{\text{\text{wountces\text{\text{\text{\text{\text{boot.wim}}}} / index:2}}}

/mountdir:C:\text{\text{\text{Mount\text{\text{\text{boot}}}}} / imagefile:C:\text{\text{\text{my\_distribution\text{\text{\text{\text{wountces\text{\text{\text{\text{winy\_distribution\text{\text{\text{\text{winy\_distribution\text{\text{\text{\text{\text{winy\_distribution\text{\text{\text{\text{\text{winy\_distribution\text{\text{\text{\text{winy\_distribution\text{\text{\text{\text{\text{\text{\text{winy\_distribution\text{

```
C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Deployment Tools>Dism /mount-image /imagefile:C:\mny_distribution\sources\boot.wim /index:2 /mountdir:C:\mnount\boot
배포 이미지 서비스 및 관리 도구
버전: 10.0.14393.0
이미지를 탑재하는 중
[=============100.0%============]
작업을 완료했습니다.
```

- A. Boot.wim: index 2를 C:₩mount₩boot에 mount 하고, 한국어 언어 팩 및 옵션 구성 요소를 mount한 이미지에 추가한다.
- B. Install.wim: boot.wim 과 같이 한국어 언어 팩 및 옵션 구성 요소를 추가한다. 이 때, 한국어를 추가한 경우가 아니라면 boot.wim 에 추가한 요소들을 동일하게 추가해야 한다.

#### <mark>4. Boot.wim</mark>에서의 추가 사항

- A. C:\mount\moun
- B. 추가 리소스는 각 언어 별 lp.cab, WinPE-setup\_<language>.cab, WinPE-Setup-client\_<language>.cab 파일이고, 위치는 언어 팩 OPK 혹은 개발 PC에서 .. Windows Preinstallation Environment\\*x86\\*WinPE\_OCs\\*ko-kr 경로에 위치해 있다.
- C. <u>언어가 한국어 (ko-KR), 중국어 (zh-HK, zh-CN, zh-TW), 일본어 (ja-JP)인 경우 fonts</u> 추가를 해야한다.

Dism /image:C:\psimount\psiboot /add-package /packagepath:\colon C:\psiProgram Files (x86)\psiWindows Kits\psi10\psiAssessment and Deployment Kit\psiWindows Preinstallation Environment\psixx86\psiWinPE\_OCs\psiko-kr\psiIp.cab\colon

Dism /image:C:\mount\moot /add-package /packagepath:\"C:\mooth Program Files (x86)\mooth Windows Kits\mooth 10\mooth Assessment and Deployment Kit\mooth Windows Preinstallation Environment\mooth x86\mooth WinPE\_OCs\mooth ko-kr\mooth WinPE-Setup\_ko-kr.cab\"

Dism /image:C:₩mount₩boot /add-package /packagepath:"C:₩Program Files

(x86)₩Windows Kits₩10₩Assessment and Deployment Kit₩Windows Preinstallation Environment₩x86₩WinPE\_OCs₩ko-kr₩WinPE-Setup-Client\_ko-kr.cab"

Dism /image:C:\#mount\#boot /add-package /packagepath:"C:\#Program Files (x86)\#Windows Kits\#10\#Assessment and Deployment Kit\#Windows Preinstallation Environment\#x86\#WinPE\_OCs\#WinPE-FontSupport-KO-KR.cab"

```
C:\(\pi\rop\rangle\) Files (\(\chi\rangle\)\(\chi\righta\) image:\(\chi\righta\) image:
```

C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Deployment Tools>Dism /image:C:\mount\boot /add-page kage /packagepath:"C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Tools>Dism /image:C:\mount\boot /add-page kage /packagepath:"C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Uniong ent\text{Kit\Uniong program Files (x86)\Windows Preinstallation Environg ent\text{Kx86\Windows Preinstallation Environg ent\text{Kx86\Windows Preinstallation Environg ent\text{Kx86\Windows Preinstallation Environg ent\text{KY86\Windows Preinstallation Environg ent\text{KY86\Windows Preinstallation Environg ent\text{KY86\Windows Environg

#### <mark>5. Install.wim </mark>에서의 추가 사항

A. C:\mount\moun

Dism /image:C:₩mount₩windows /add-package /packagepath:C:₩mount₩Microsoft-Windows-Client-Language-Pack\_x86\_ko-kr.cab

B. C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows
Preinstallation Environment\X86\WinPE\_OCs\ko-kr 폴더를 c:\mumount에 xcopy 명령

어를 사용하여 C:₩my\_distribution₩sources₩fr-fr로 복사한다.

xcopy C:\mount\ko-kr C:\my\_distribution\sources\ko-kr /cherkyi

C. 지역화 설정을 위해 Lang.ini 파일을 다시 만들고 기본 언어 설정을 지정하고, windows 설치 프로그램의 기본 언어를 변경한다..

```
Dism /image:C:\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mount\mou
```

D. 지역화가 적용된 변경한 lang.ini파일을 boot.wim으로 xcopy 명령어를 이용하여 복사한다.

Xcopy C:\#my\_distribution\#sources\#lang.ini C:\#mount\#boot\#sources\#lang.ini

```
C:#Program Files (x86)#Windows Kits#10#Assessment and Deployment Kit#Deployment Tools>Xcopy C:#my_distribution#sources#
ang.ini C:#mount#boot#sources#lang.ini
C:#mount#boot#sources#lang.ini을(를) 덮어쓰시겠습니까(Yes/No/All)? y
C:#my_distribution#sources#lang.ini
1개 파일이 복사되었습니다.
```

6. 4, 5 과정을 통해 만들어 진 boot.wim, install.wim을 commit 한다.

Dism /unmount-image /mountdir:C:₩mount₩boot /commit

Dism /unmount-image /mountdir:C:₩mount₩windows /commit

```
C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Deployment Tools>Dism /unmount-image /mountdir:C:\mount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Prount\Pr
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7. 변경 된 boot.wim, install.wim을 기존 OS설치 파일의 ..₩sources₩boot.wim, install.wim 파일과 교체한다.

8. 교체한 OS 설치 파일로 설치를 진행하면 <u>지역화까지 적용된 상태로 OS가 설치</u>된다.

## ✓ Reference

 $\underline{\text{https://msdn.microsoft.com/en-us/windows/hardware/commercialize/manufacture/desktop/add-multilingual-support-to-windows-setup}$