AX58x01(2)
SSC Tool Configuration Import User Guide

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Revision History

Revision	Date	Description
1.00	2025/09/16	Initial release

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1. Introduction

The SSC Tool is provided by ETG (EtherCAT Technology Group) and used for generate EtherCAT SSC (SubDevice Stack Code). Any legal ETG members can use this tool to generate several workable SSC sample codes that provide by BECKHOFF or other companies, or they also can specify their application through the tool. This guide will describe how to import the configuration file of particular application and generate related source files.

Note1: ASIX configuration file is based on SSC Tool v5.13
Note2: Please make sure your system has Microsoft EXCEL 2013 or later before using SSC Tool
Note3: This article will use “Ax58101_GpioAio” project as an example.

if you’ll use other reference design project, please adjust the path as below of project, configuration and Excel file by yourself.

- AX58101(2)_BSP
  - Ax58101_GpioAio

BSP_ROOT\SampleCode\Ax58101_GpioAio\For_SSC_Tool\AX58101_GPIO_8Bit_AIO_16Bit.esp
BSP_ROOT\SampleCode\Ax58101_GpioAio\For_SSC_Tool\Import\Configuration\AsixAx58101GpioAioConfigurations.xml
BSP_ROOT\SampleCode\Ax58101_GpioAio\For_SSC_Tool\Import\Configuration\files\AX58101_GPIO_8Bit_AIO_6Bit.xlsx

  - Ax58101_MotorControl

BSP_ROOT\SampleCode\Ax58101_MotorControl\For_SSC_Tool\AX58101_MotorControl.esp
BSP_ROOT\SampleCode\Ax58101_MotorControl\For_SSC_Tool\Import\Configuration\AX58101_MotorControlConfigurations.xml
BSP_ROOT\SampleCode\Ax58101_MotorControl\For_SSC_Tool\Import\Configuration\files\AX58101_MotorControl.xlsx

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2. Download The SSC Tool

You can download the SSC Tool through below hyperlink:
ETG_SSC_Tool_Download

Click the link (red square) of below screen.

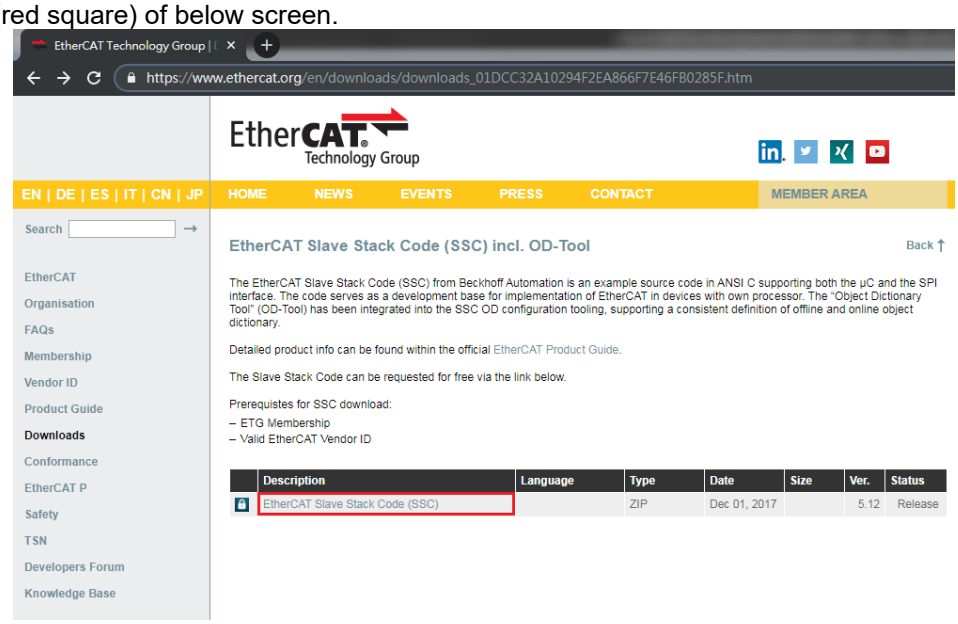

Figure 2-1

You must be an ETG member for download any contents from ETG website.
Please type your "**User name**", "**Password**" and click "**Login**" for download.

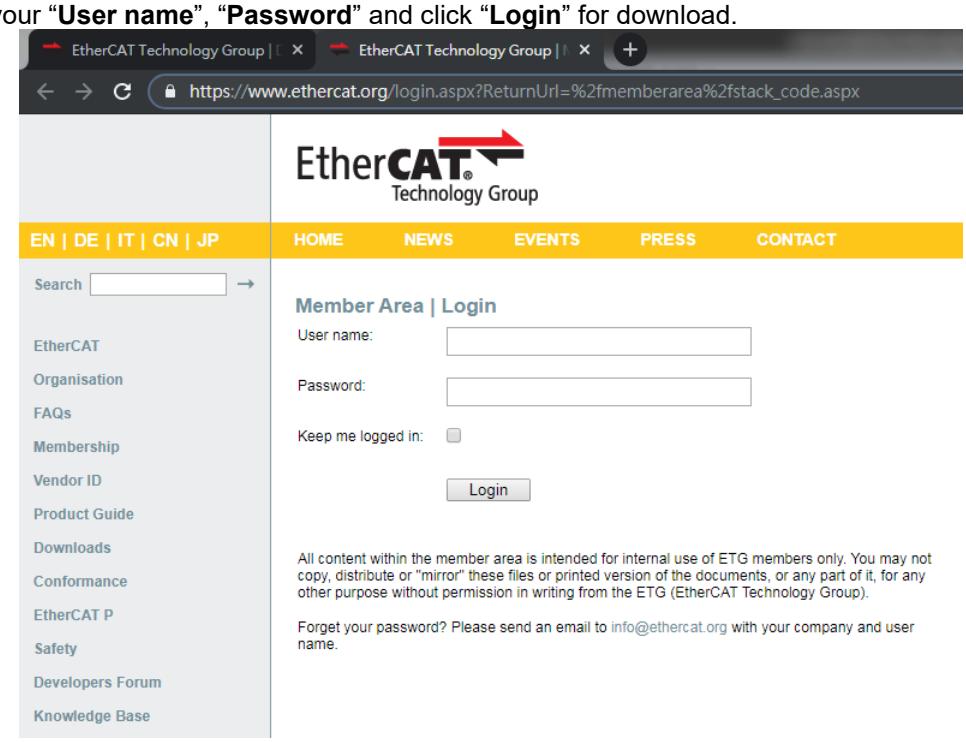

Figure 2-2

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Type the EtherCAT Vendor ID of your company and click “**Submit Registration ***”.

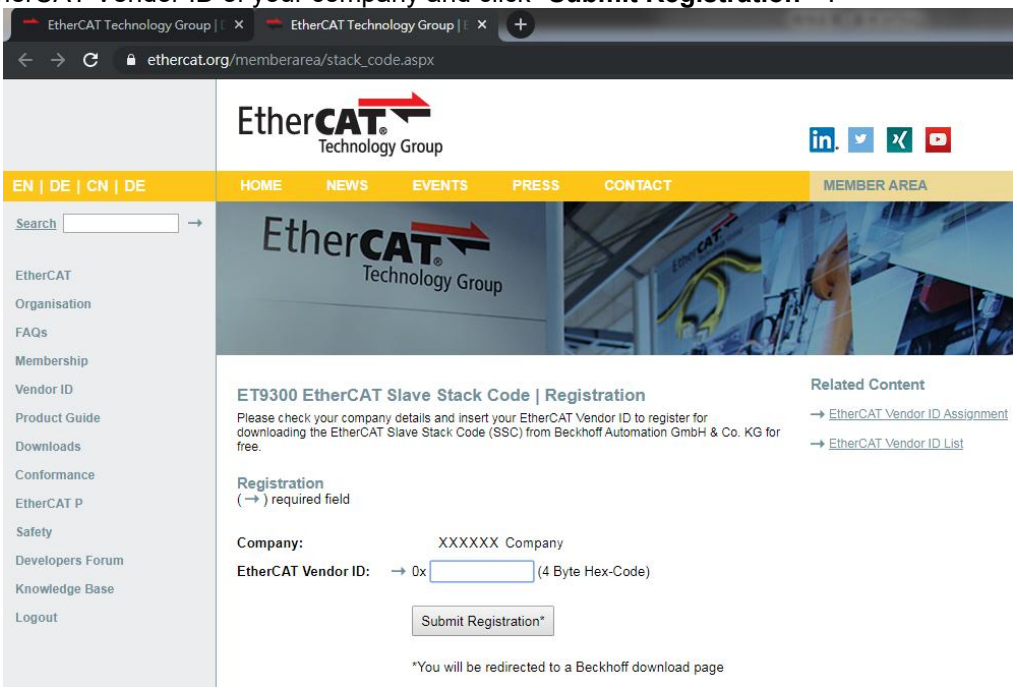

Figure 2-3

Type “**First Name**”, “**Last Name**”, “**Company**”, “**Email**”, check “**Data Privacy**” and click “**Submit**”.

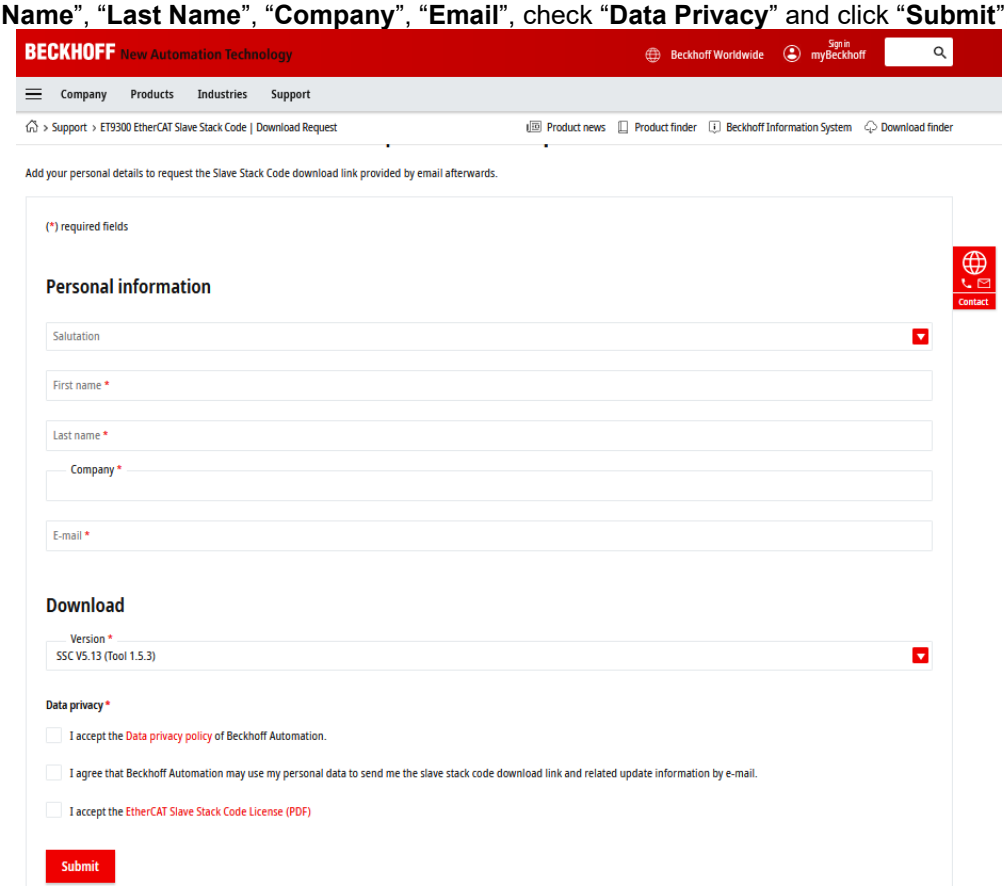

Figure 2-4

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You will see below screen and receive the email later.

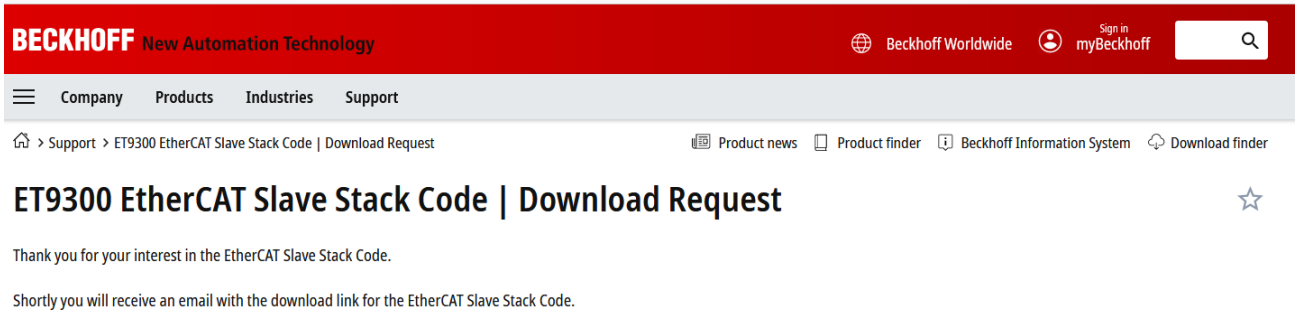

Figure 2-5

You should click the download link in the received email and you will see below screen for download page.

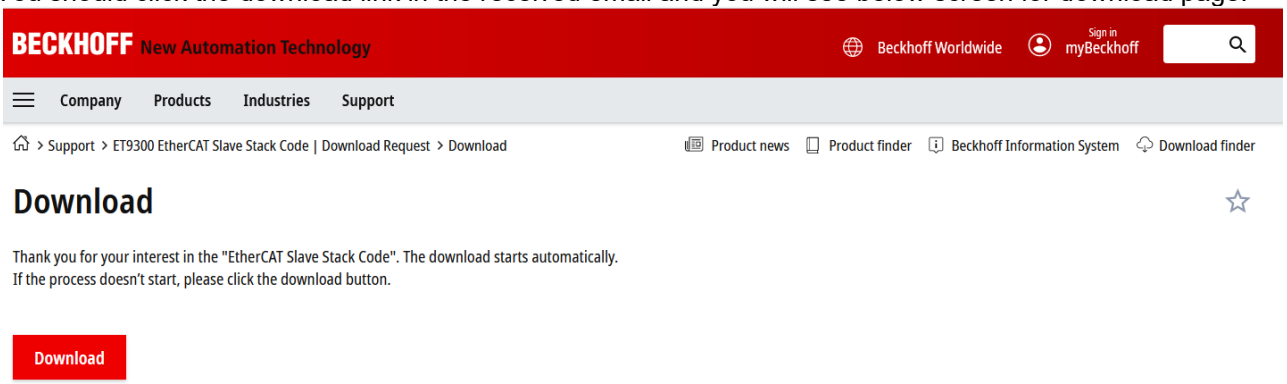

Figure 2-6

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3. SSC Tool Installation

Below is an example how to install SSC Tool. Execute "**EtherCAT SubDevice Stack Code Tool.exe**".

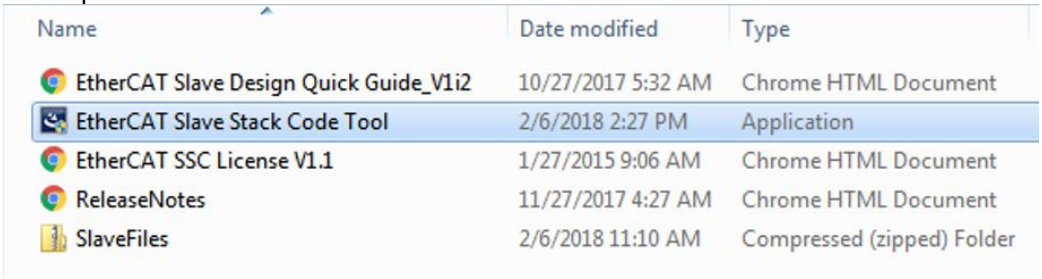

Figure 3-1

Select the language and click "**OK**".

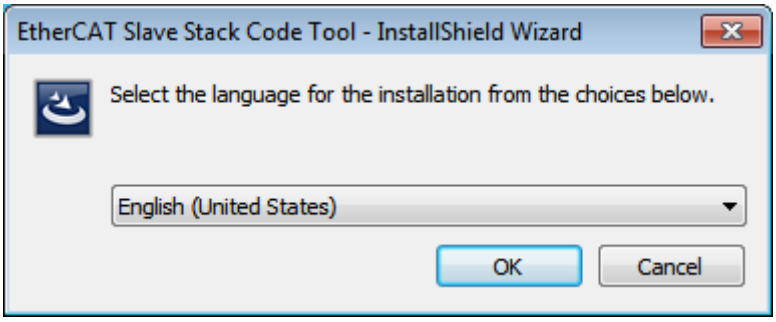

Figure 3-2

Click "**Next >**".

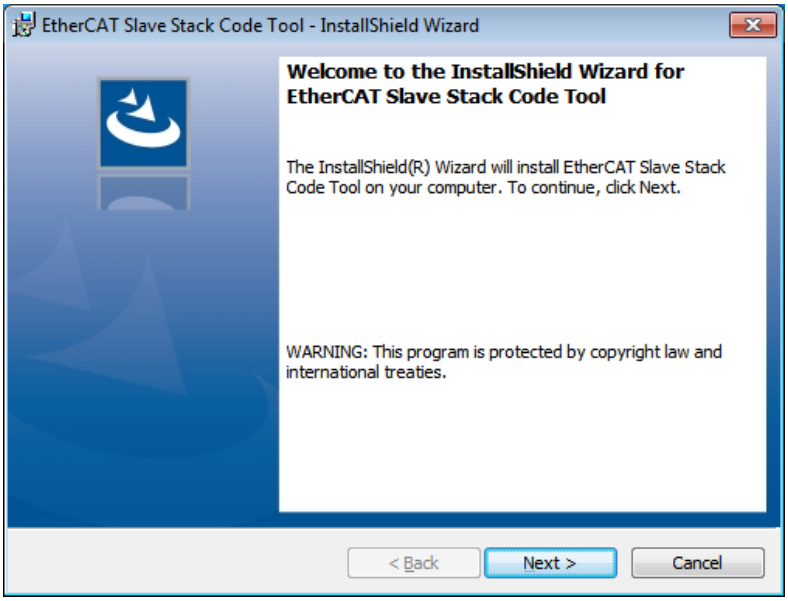

Figure 3-3

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Check “**I accept …**” and click “**Next >**”

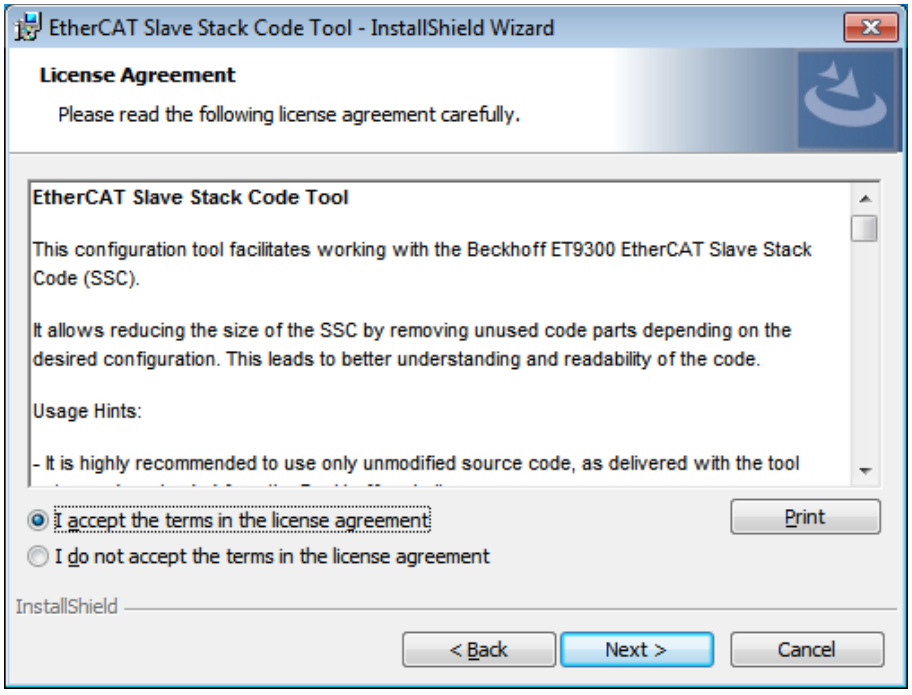

Figure 3-4

Type the “**Organization**”, “**Vendor ID**” and click “**Next** >”.

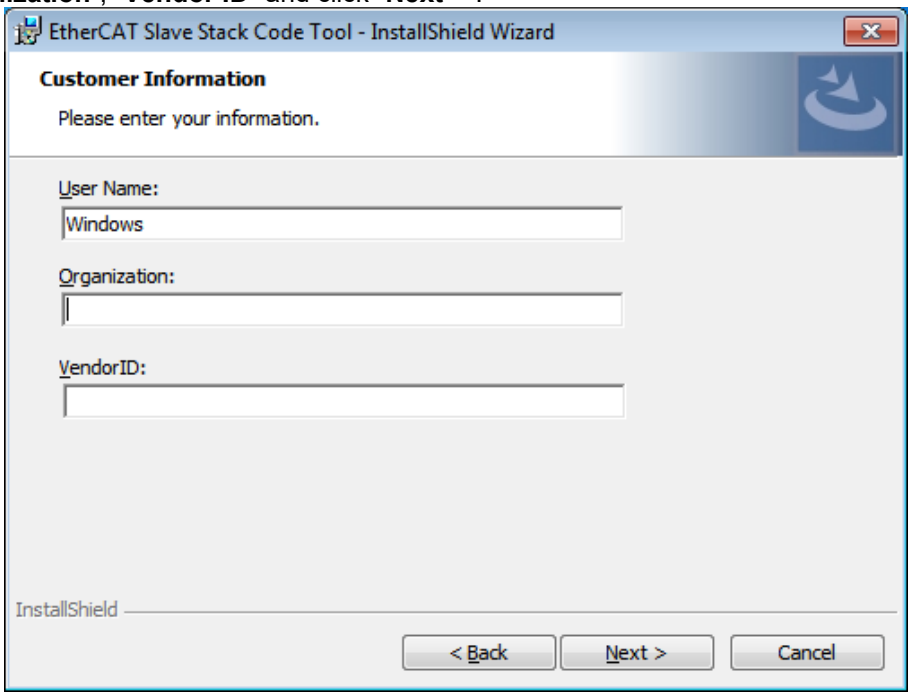

Figure 3-5

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Click “**Install**”.

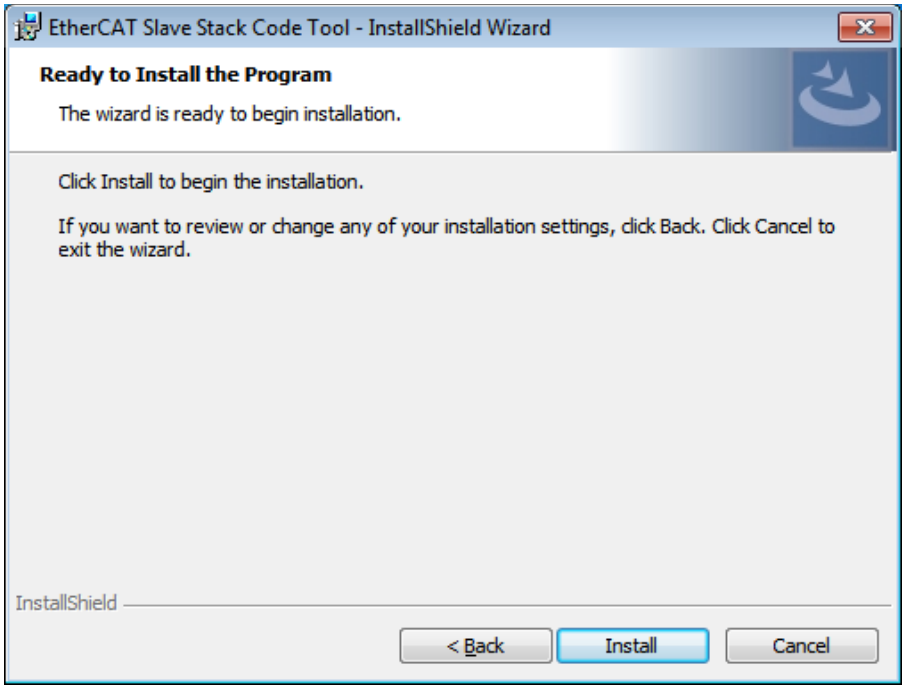

Figure 3-6

Wait a while for installation.

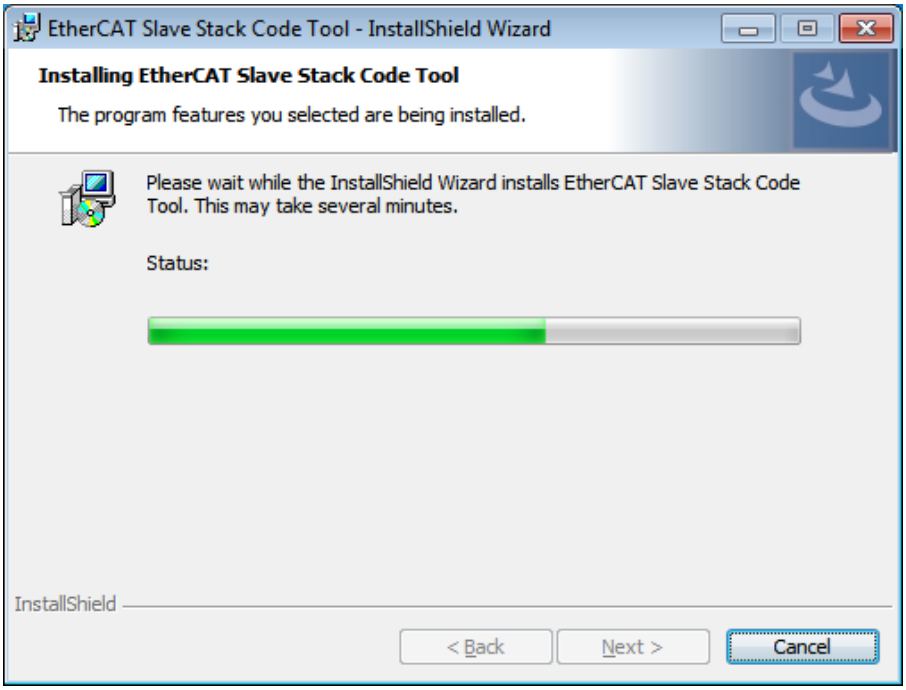

Figure 3-7

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Click “**Finish**”.

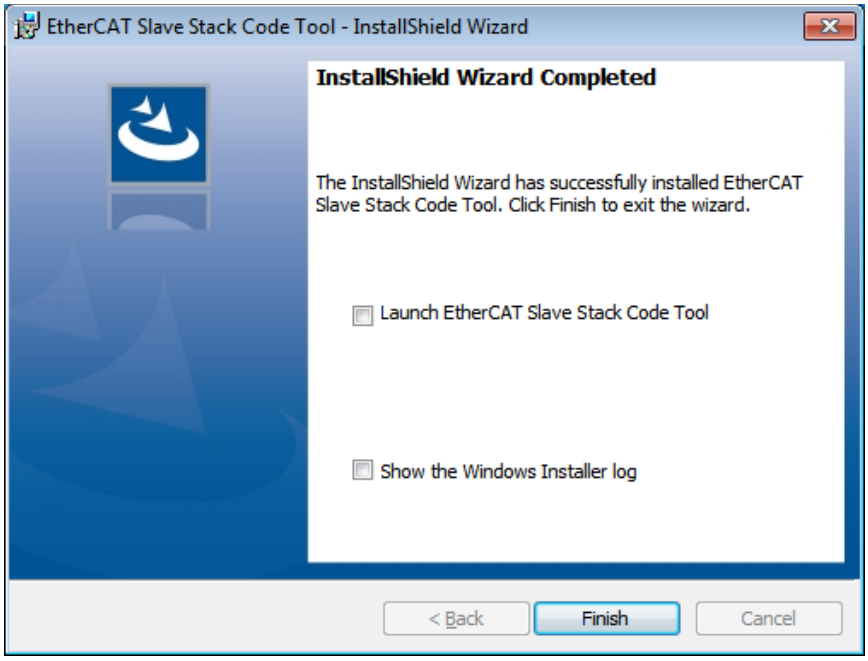

Figure 3-8

The SSC Tool shortcut already exists in your start menu.

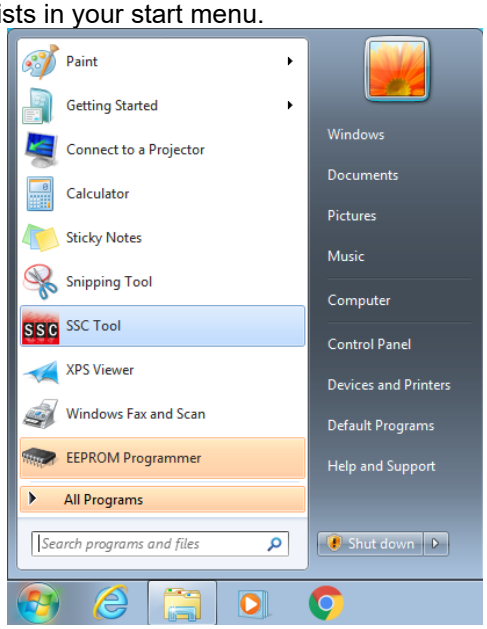

Figure 3-9

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4. Import Configuration File

If the old configuration already be imported in SSC Tool of your environment, please do below 2 steps for remove it. If your SSC Tool is first time to execute, please see next page.

Step 1: Click "**Tool -> Options**"

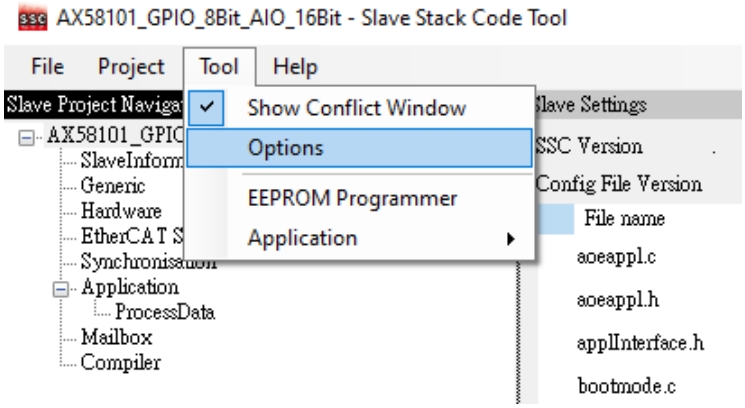

Figure 4-1

Step 2: Select the configuration item, click "-" icon and "**OK**".

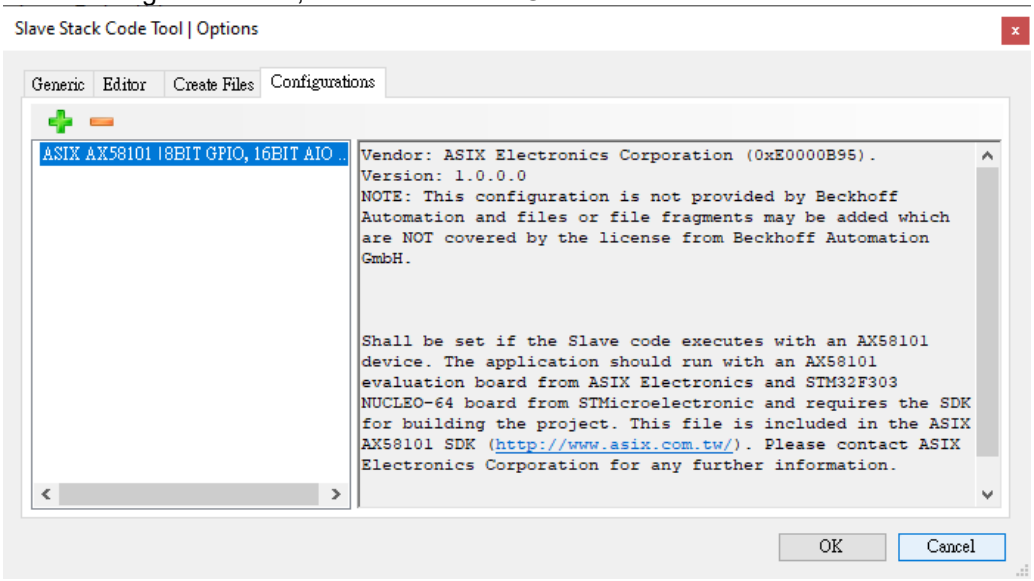

Figure 4-2

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If your SSC Tool is first time to execute and you will see below screen. If you removed old configuration as above-mentioned, just click "**File -> New**", you will also see below screen.
Please select "**Custom**" field and click "**Import**".

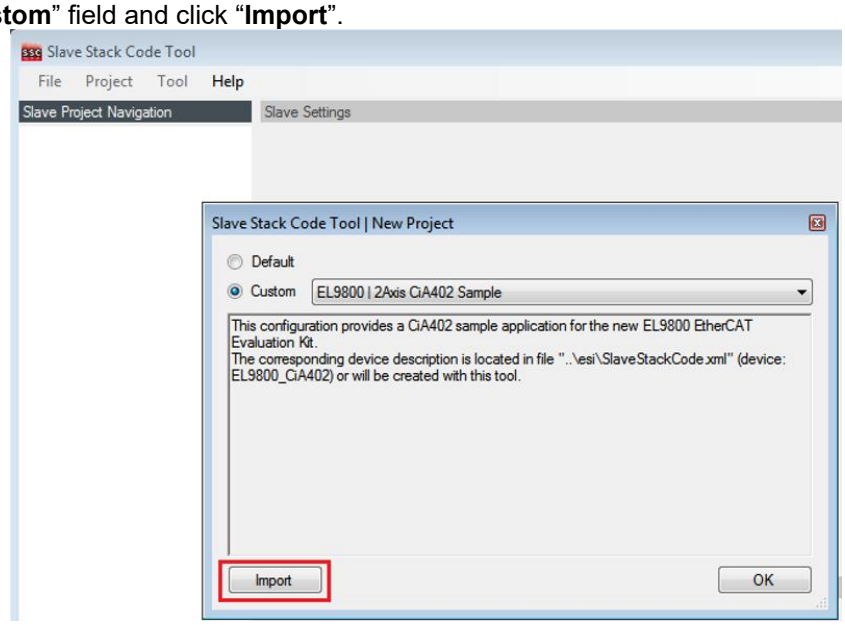

Figure 4-3

Select the configuration file in the path below and click "**Open**".
"**BSP_ROOT\SampleCode\Ax58101_GpioAio\For_SSC_Tool\Import\Configuration\AsixAx58101GpioAioConfigurations.xml**"

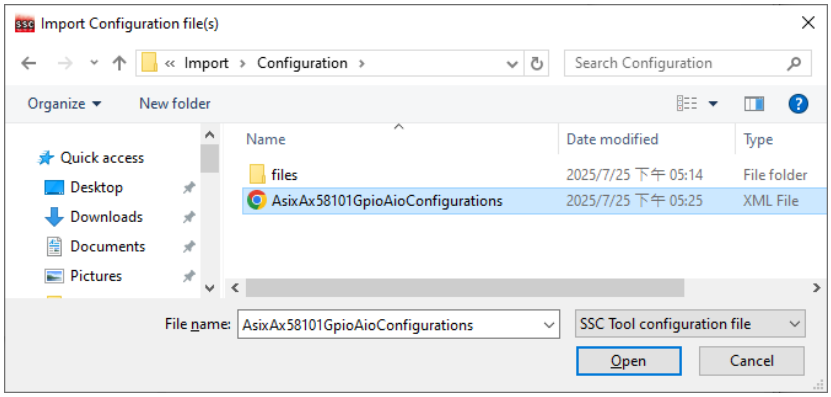

Figure 4-4

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You will see below screen. The "**ASIX AX58101 | 8BIT GPIO, 16BIT AIO <ASIX Electronic Corporation>**" appears in the Custom filed. Please click "**OK**".

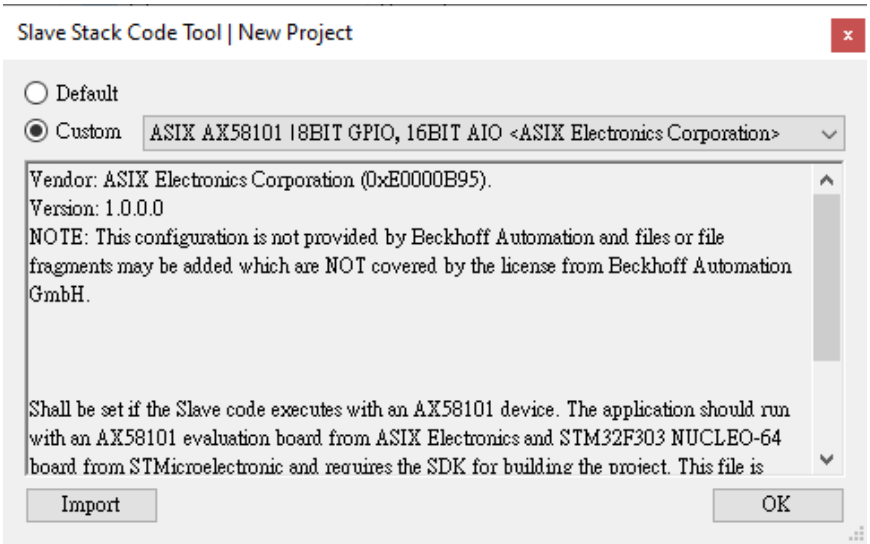

Figure 4-5

Click "**Yes**".

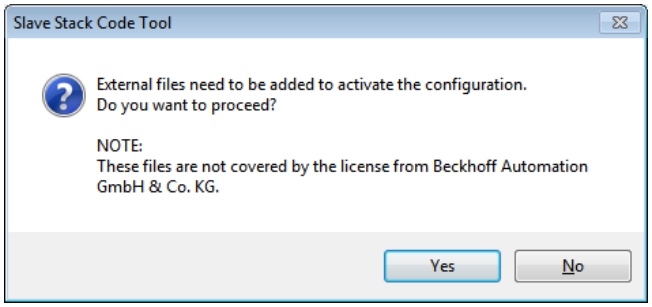

Figure 4-6

It will back to main screen of SSC Tool. Please click "**Tool -> Application -> Import**".

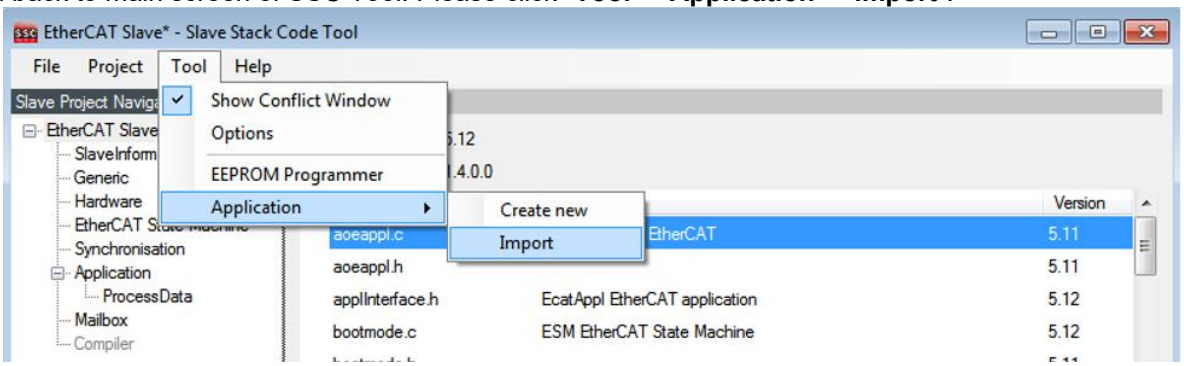

Figure 4-7

Select the excel file in the path below and click "**Open**".
"**BSP_ROOT\SampleCode\AX58101_GpioAio\For_SSC_Tool\Import\Configuration\files\AX58101_GPIO_8Bit_AIO_16Bit.xlsx**"

Then press "**OK**" to close excel file parsing logger dialog.

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Save this SSC project by click “**File -> Save As**”.

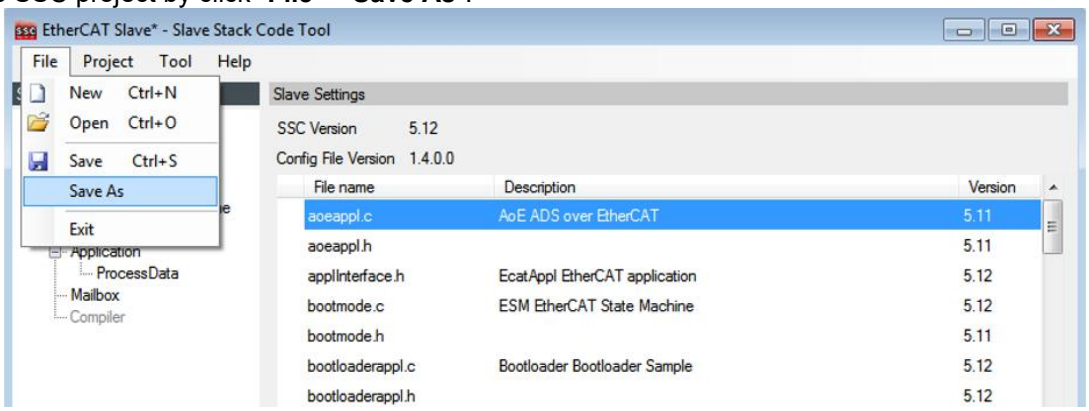

Figure 4-8

You can overwrite the file in
“**BSP_ROOT\SampleCode\AX58101_GpioAio\For_SSC_Tool\AX58101_GPIO_8Bit_AIO_16Bit.esp**”.

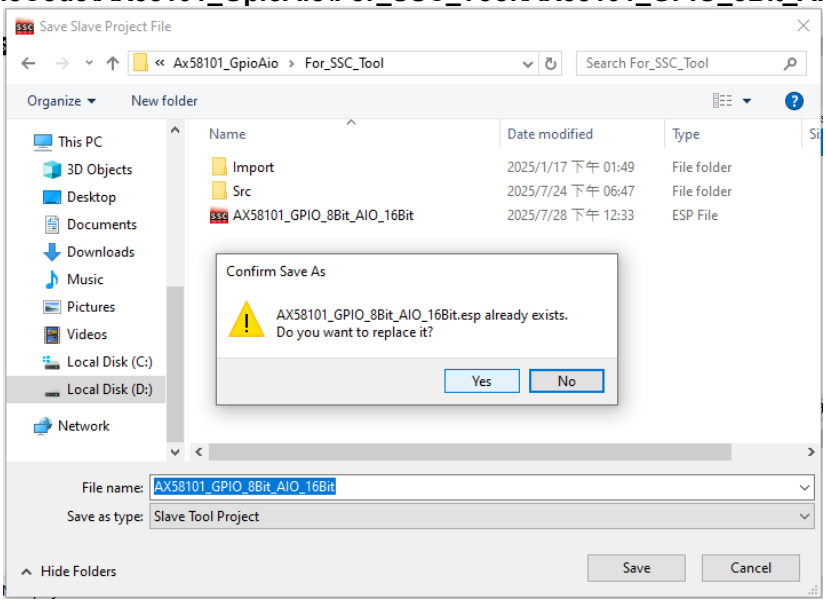

Figure 4-9

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It will come back to main screen. Click “Project -> Create new Slave Files”.

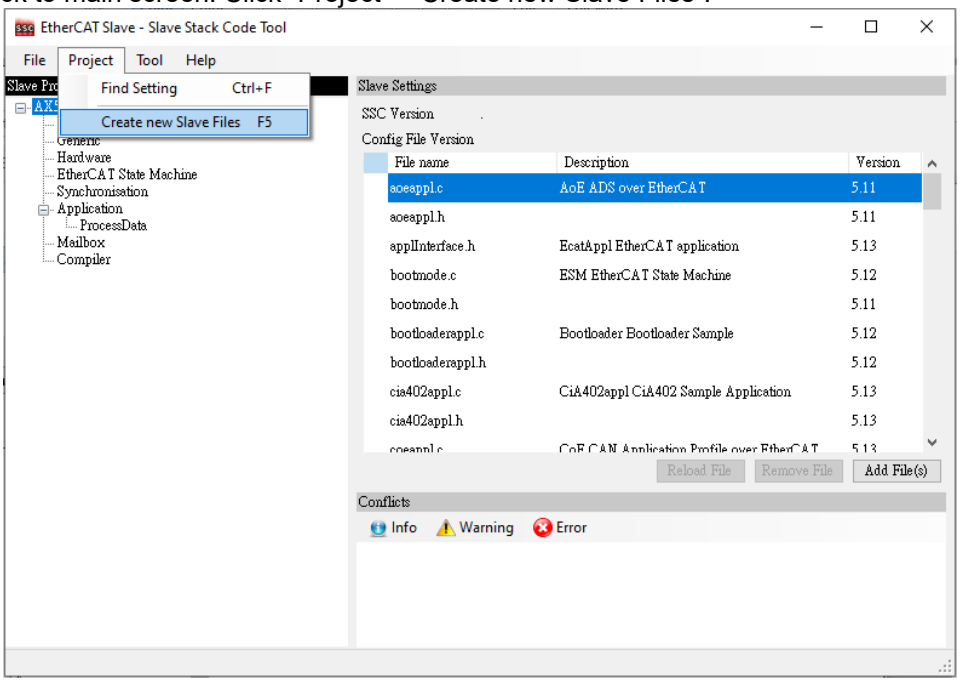

Figure 4-10

Then here will start to generate SSC source code, before press the “**Start**” button, please check the file paths are correct.
If the code generation is successfully as the figure below, click “OK” and “Close” to finish the procedure.

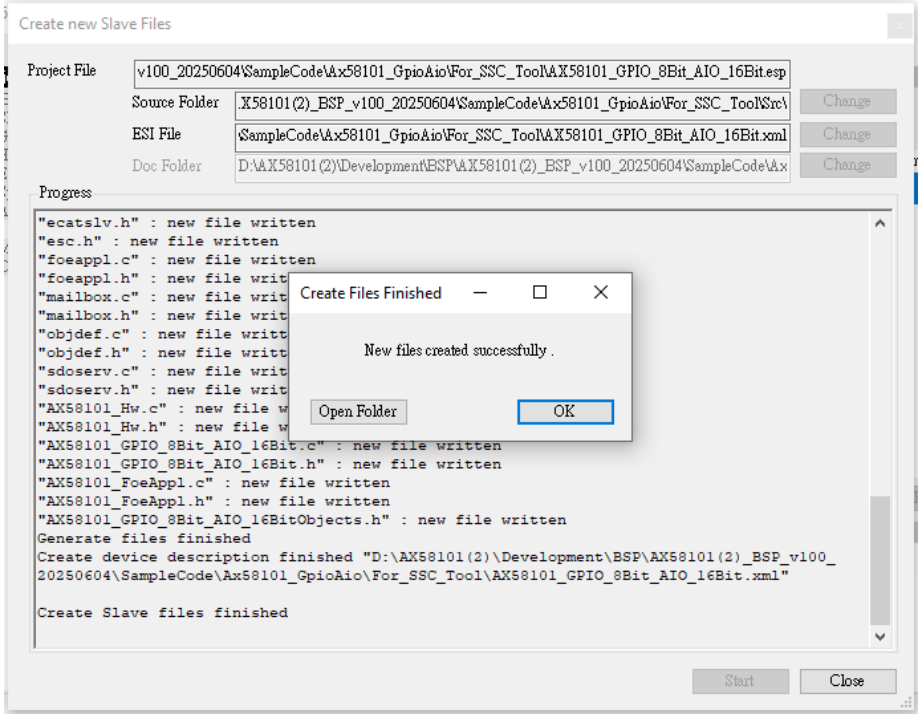

Figure 4-11

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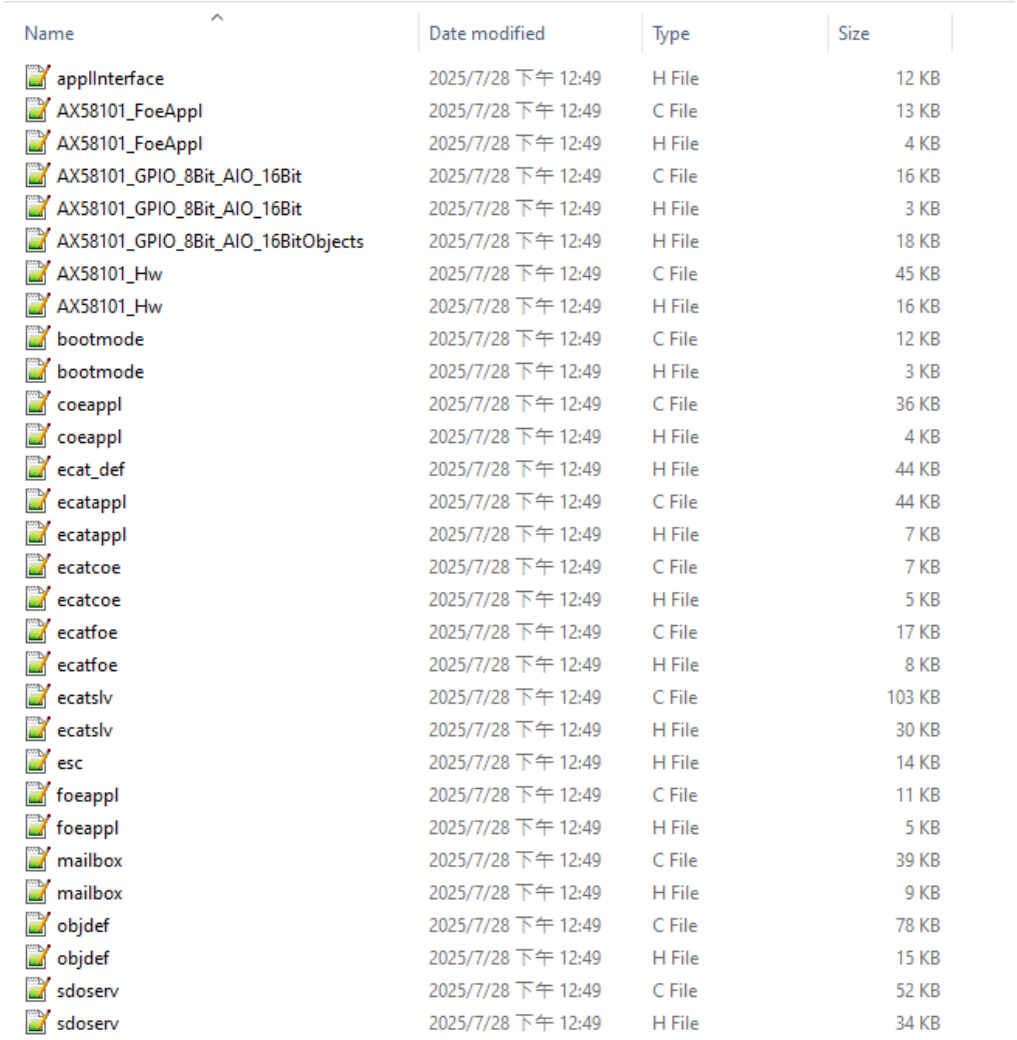
Then the generated source code can be found as below.



Name	Date modified	Type	Size
applInterface	2025/7/28 下午 12:49	H File	12 KB
AX58101_FoeAppl	2025/7/28 下午 12:49	C File	13 KB
AX58101_FoeAppl	2025/7/28 下午 12:49	H File	4 KB
AX58101_GPIO_8Bit_AIO_16Bit	2025/7/28 下午 12:49	C File	16 KB
AX58101_GPIO_8Bit_AIO_16Bit	2025/7/28 下午 12:49	H File	3 KB
AX58101_GPIO_8Bit_AIO_16BitObjects	2025/7/28 下午 12:49	H File	18 KB
AX58101_Hw	2025/7/28 下午 12:49	C File	45 KB
AX58101_Hw	2025/7/28 下午 12:49	H File	16 KB
bootmode	2025/7/28 下午 12:49	C File	12 KB
bootmode	2025/7/28 下午 12:49	H File	3 KB
coeappl	2025/7/28 下午 12:49	C File	36 KB
coeappl	2025/7/28 下午 12:49	H File	4 KB
ecat_def	2025/7/28 下午 12:49	H File	44 KB
ecatappl	2025/7/28 下午 12:49	C File	44 KB
ecatappl	2025/7/28 下午 12:49	H File	7 KB
ecatcoe	2025/7/28 下午 12:49	C File	7 KB
ecatcoe	2025/7/28 下午 12:49	H File	5 KB
ecatfoe	2025/7/28 下午 12:49	C File	17 KB
ecatfoe	2025/7/28 下午 12:49	H File	8 KB
ecatslv	2025/7/28 下午 12:49	C File	103 KB
ecatslv	2025/7/28 下午 12:49	H File	30 KB
esc	2025/7/28 下午 12:49	H File	14 KB
foeappl	2025/7/28 下午 12:49	C File	11 KB
foeappl	2025/7/28 下午 12:49	H File	5 KB
mailbox	2025/7/28 下午 12:49	C File	39 KB
mailbox	2025/7/28 下午 12:49	H File	9 KB
objdef	2025/7/28 下午 12:49	C File	78 KB
objdef	2025/7/28 下午 12:49	H File	15 KB
sdoserv	2025/7/28 下午 12:49	C File	52 KB
sdoserv	2025/7/28 下午 12:49	H File	34 KB

Figure 4-12

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ASIX Electronics Corporation

4F, No.8, Hsin Ann RD., Hsinchu Science Park,
Hsinchu, Taiwan, R.O.C.

TEL: +886-3-5799500
FAX: +886-3-5799558

Email: support@asix.com.tw
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