伍豐科技股份有限公司
FIRICH ENTERPRISES CO., LTD.

OPOS Driver for FEC CashDrawer

FEC

February 8th, 2023

Document Revision History

Rev.	Date	Author	Draft/Changes
0.1	*2015*	James Wang	First Version
0.2	*2015/10/13*	James Wang	(1) Remove J1900 Mother Board Support (2) Description about Cash Drawer model name and mother board mapping
0.3	*2015/11/17*	James Wang	(1) Add J1900 and H81 mother board support (2) Description about Cash Drawer model name and mother board mapping (3) Add section description about auto update status event for cash drawer
0.4	*2017/3/1*	Brian Yeh	(1) Add FH-Z8300/FH-Z8350 mother board support (2) Description about Cash Drawer model name and mother board mapping
0.5	*2017/12/6*	Nelson Yang	(1) Update for POS.Net SDK TestApp.exe running with normal user for FEC H81/H61/J1900/D525 (not include FH-Z8300/FH-Z8350) (2) Add Integrate with CashDrawer Tool v1.0.4
0.6	*2018/1/3*	Nelson Yang	(1) Add running with normal user for FH-Z8300/FH-Z8350
0.7	*2018/2/1*	Nelson Yang	(1) Fix Uninstall didn’t delete all files (2) Fix AP-3615 Fastly 50 times Click “OpenDrawer” that made CashDrawer always open
0.8	*2018/3/7*	Nelson Yang	(1) Add CCO Installer to FECSetup.exe for auto install CCO
0.9	*2018/7/24*	Elliot Ling	Add H110/Q170 mother board support
1.0	*2019/4/11*	Elliot Ling	Add FKLU (XPOS) IO board support
1.1	*2019/9/9*	Elliot Ling	Add SF570 mother board support
1.2	*2020/3/10*	Elliot Ling	Add FCLQ370ATX/FCLH310ATX MB support
1.3	*2022/9/14*	Elliot Ling	Add FJ6412 & FALSH MB support
1.4	*2023/2/8*	Elliot Ling	Add the “Set file properties as Run as

			administrator”

1. Introduction

1.1. Overview

This document describes how to use the FEC OPOS driver for the FEC Cash Drawer.The FEC OPOS driver is a software program for opening cash drawer from Windowsapplications to the cash drawer.

1.2. System Requirements

This Cash Drawer driver can be used with the following system configurations.

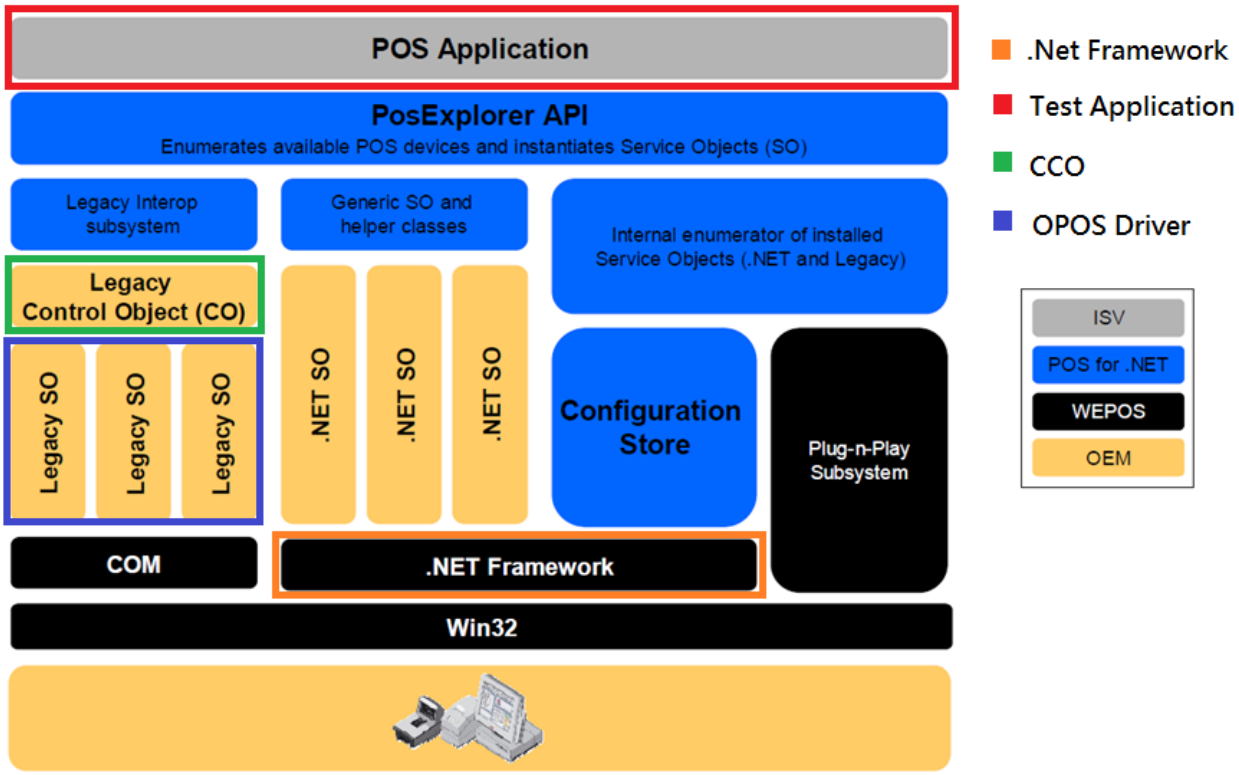
- **Cash Drawer Setup**
  - 12V
  - 24V
- **Hardware Platform (Mother Board)**
  - FEC D525
  - FEC H61
  - FEC H81
  - FEC J1900
  - FH-Z8300 / FH-Z8350
  - FEC H110/Q170
  - FEC FKLU
  - FEC SF570/FCLQ370ATX/FCLH310ATX
  - FEC FJ6412
  - FEC FALSH
- **Supported Operating System(OS)**
  - **Microsoft® Windows Embedded® POSReady 2009**
  - **Microsoft® Windows Embedded® POSReady 7**
  - **Microsoft® Windows10 Enterprise LTSB**

  The 32-bit/64-bit OS versions are also supported

- **Additional Requirements include:**
  - **.NET 4.0 and above**

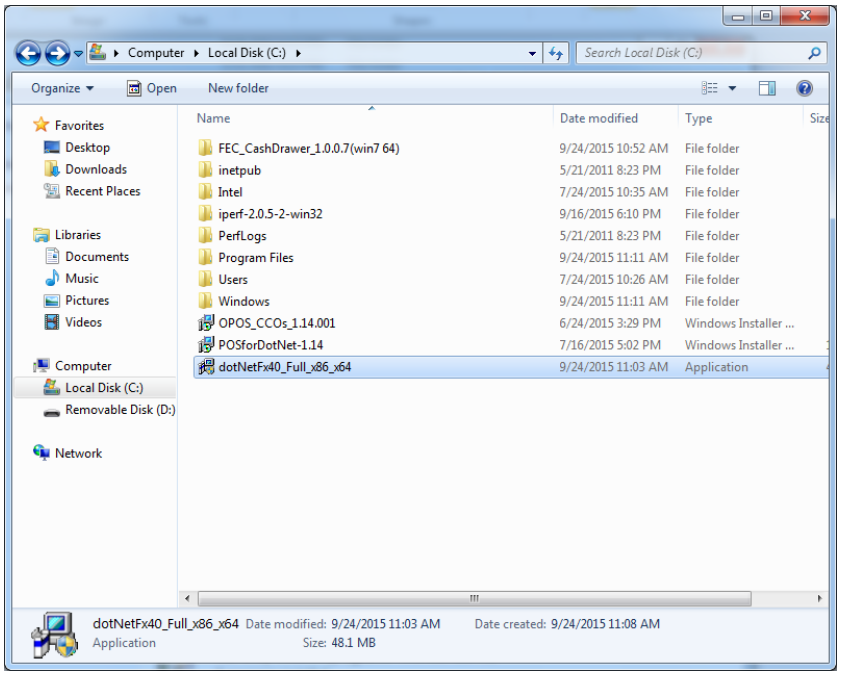
2. Installing for FEC OPOS Driver

This section describes the installation all software about FEC Cash Drawer OPOS driver, these software contain .Net Framework, Testing Application, Common Control Object (CCO) and FEC OPOS Driver.

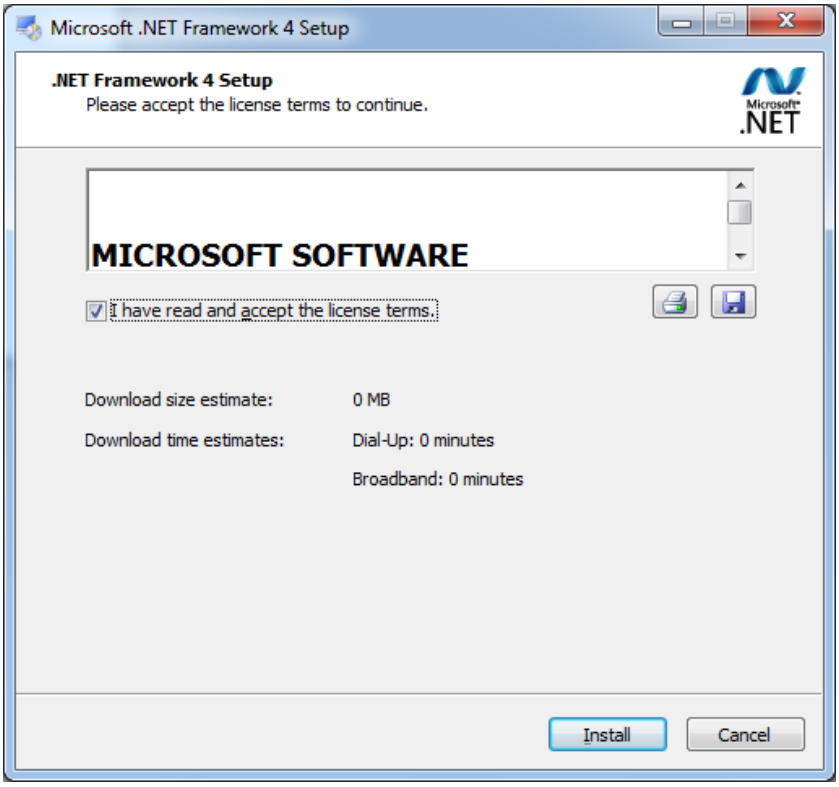


2.1. Microsoft .Net Framework4.0 installation

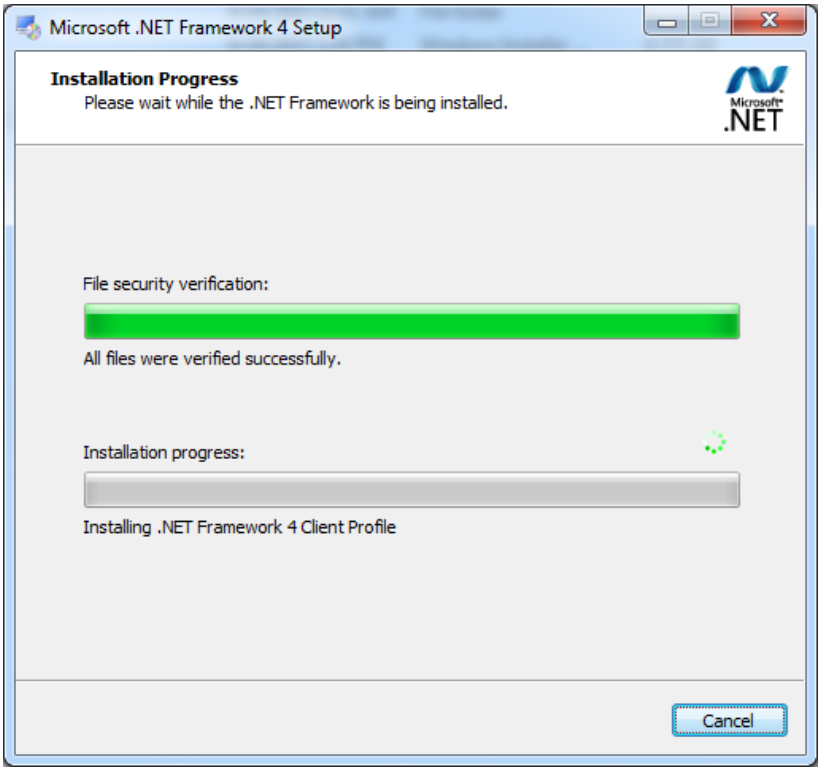
- Double-Click for doNetFx40_Full_x86_x64 to begin install.



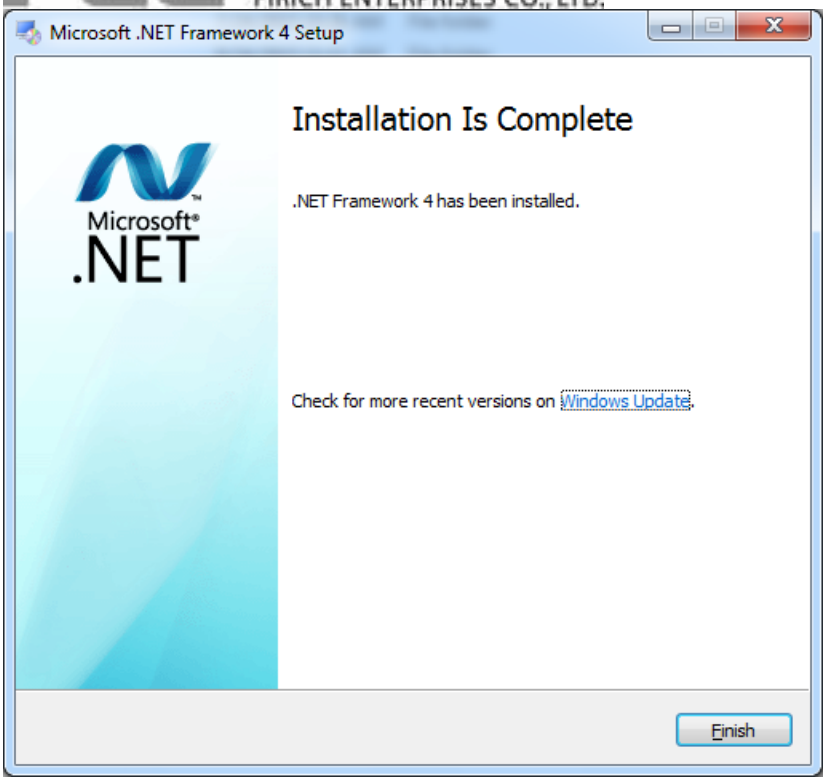
- To accept the license agreement



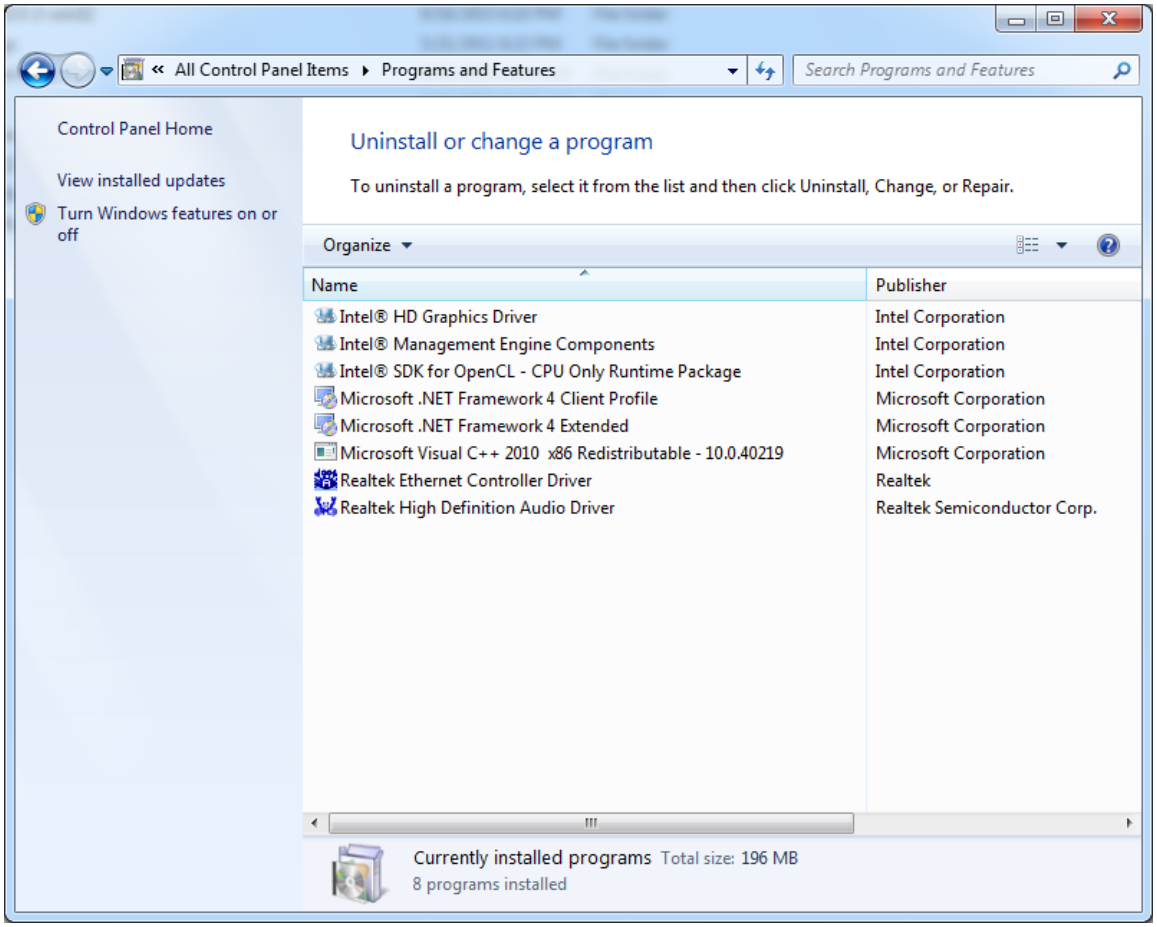
- Begin install process



- Finish installation

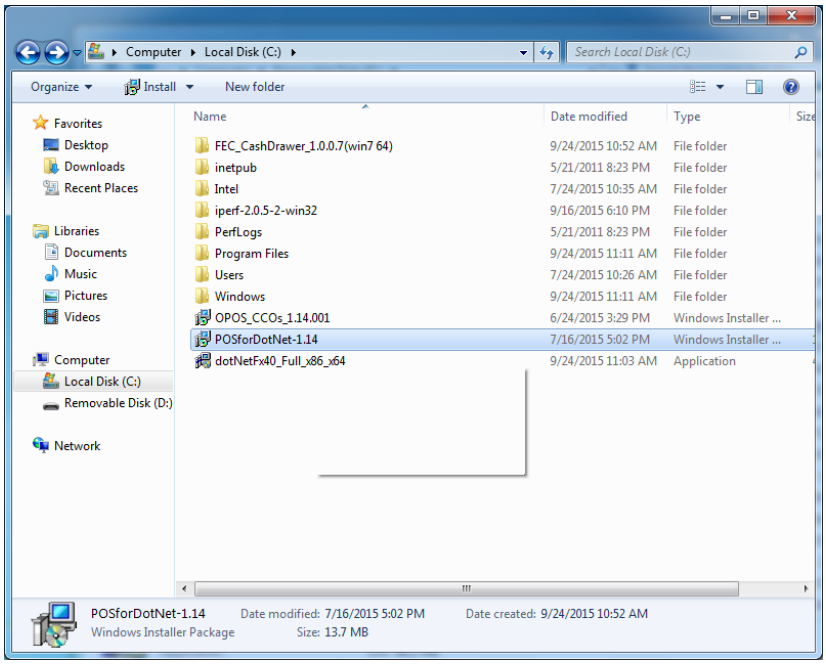


- Check .Net Framework has been installed

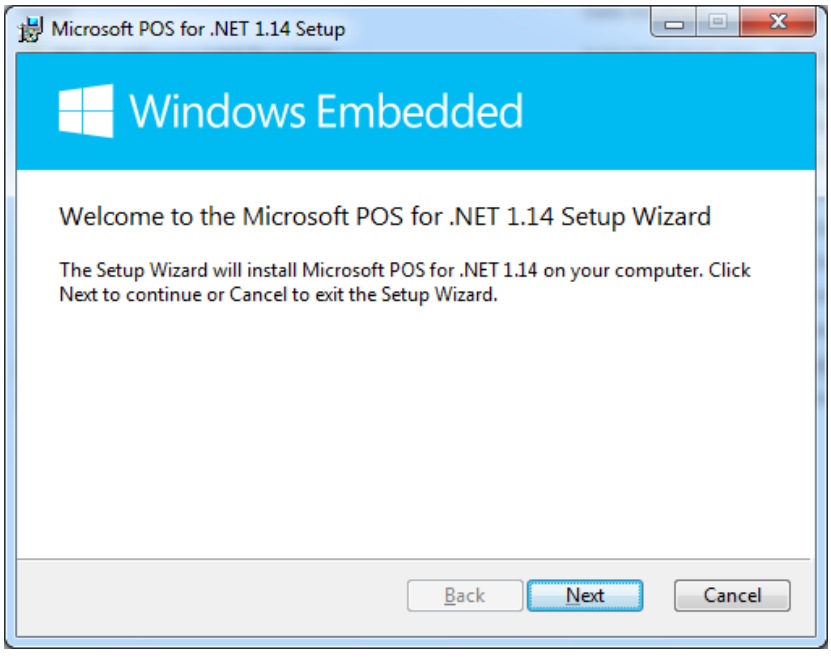


2.2. Testing Application of POS for .Net

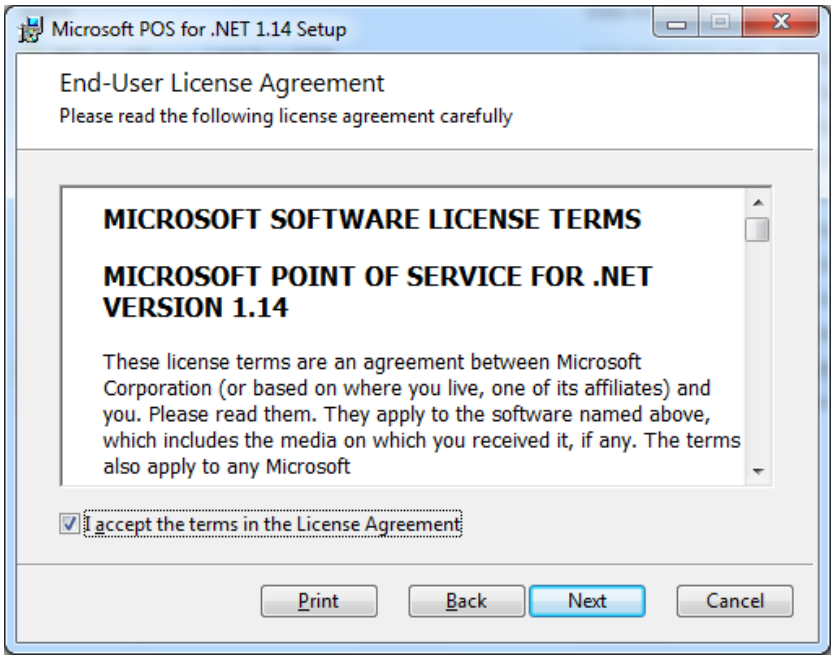
- Double-Click for POSforDoNet-1.14 to begin install



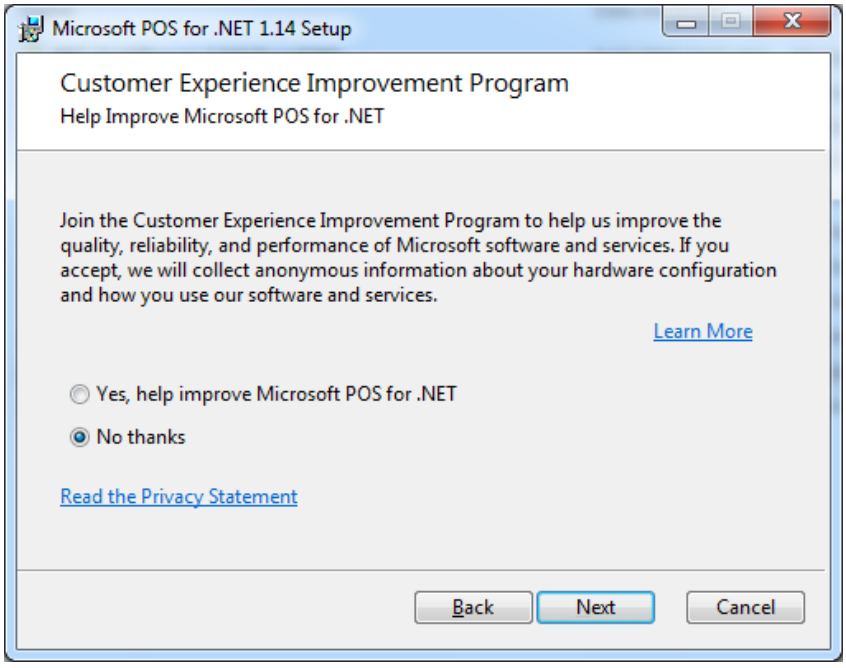
- First Screen for installation



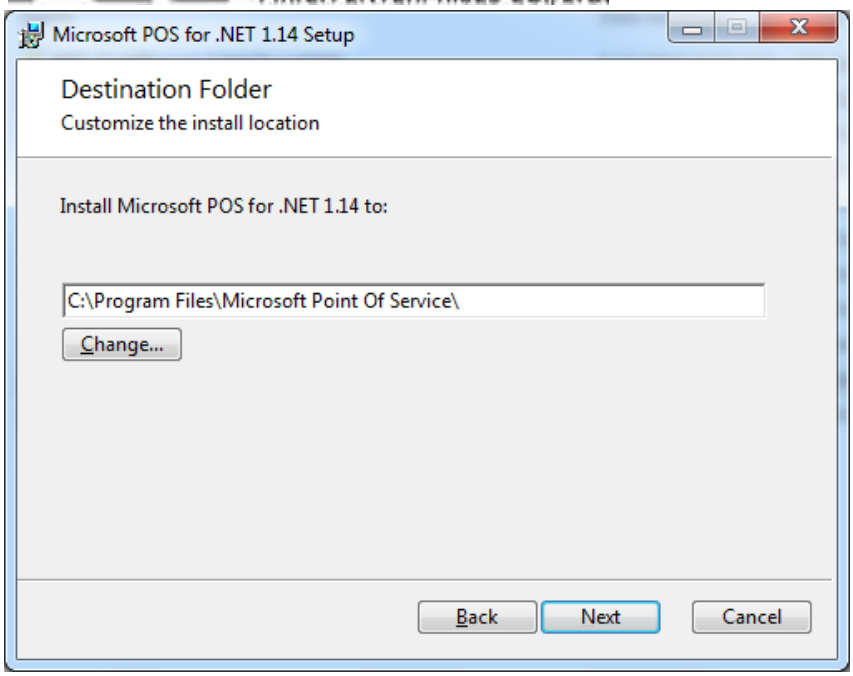
- To accept the license agreement



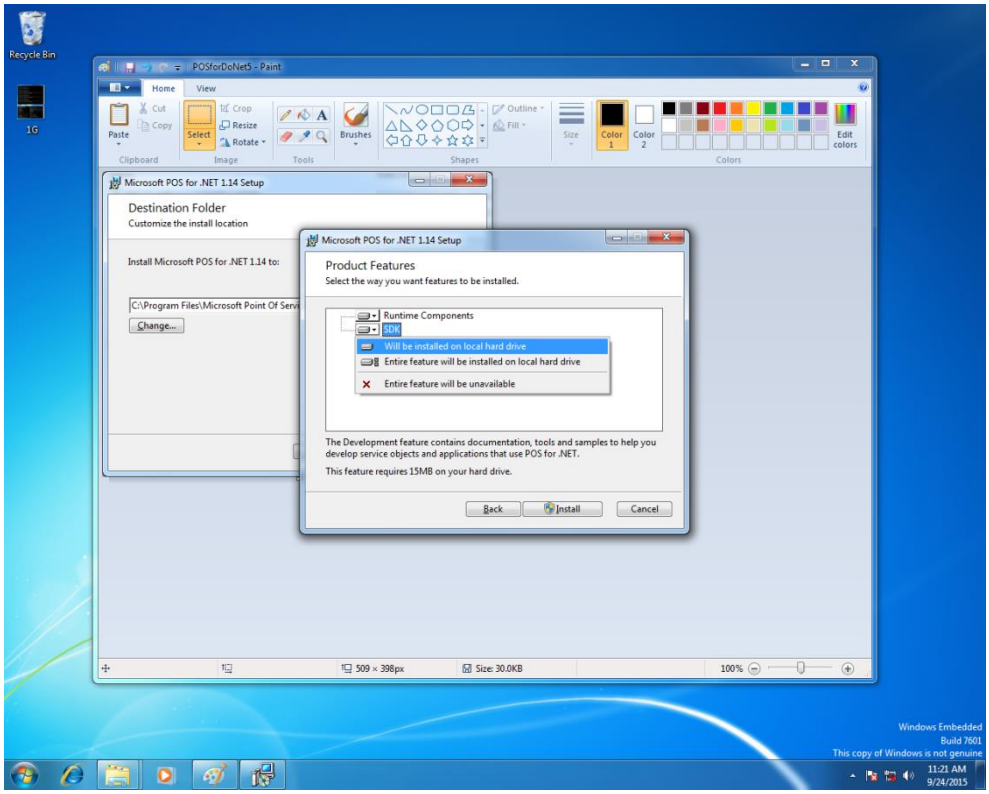
- Option for Customer Experience Improvement Program, Set “No thanks” for this step

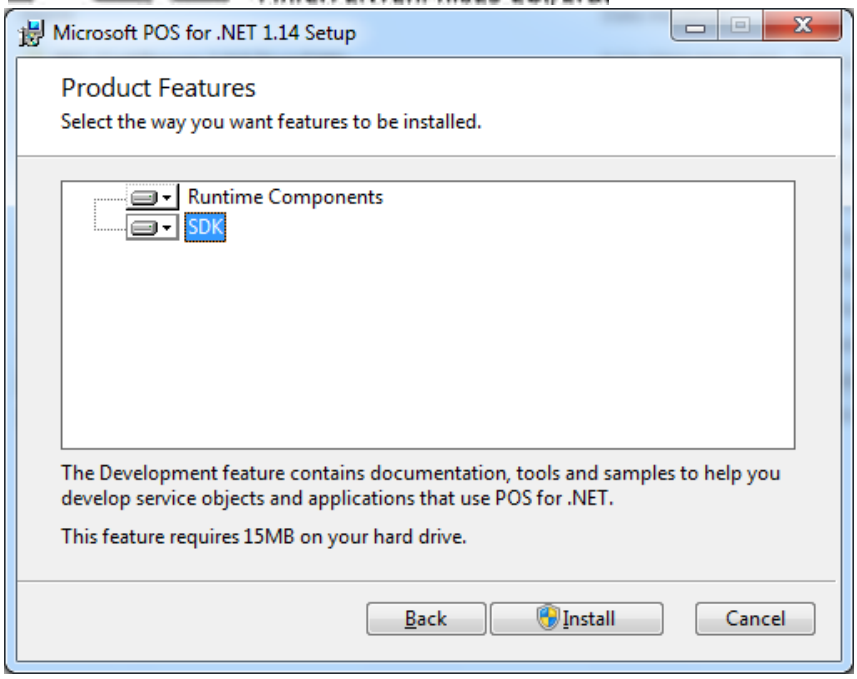


- Set up the install path for the program

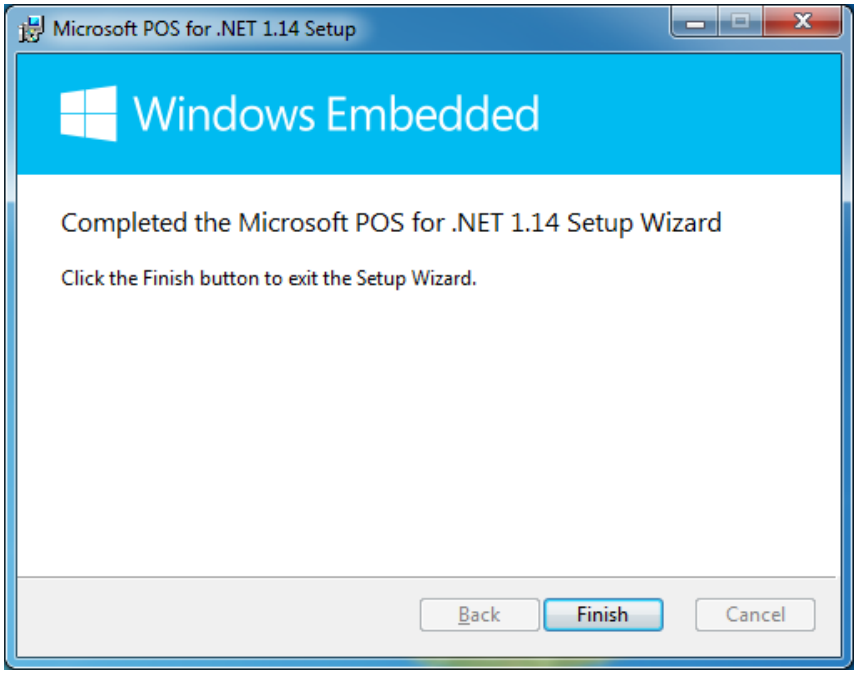


- Select install package for SDK

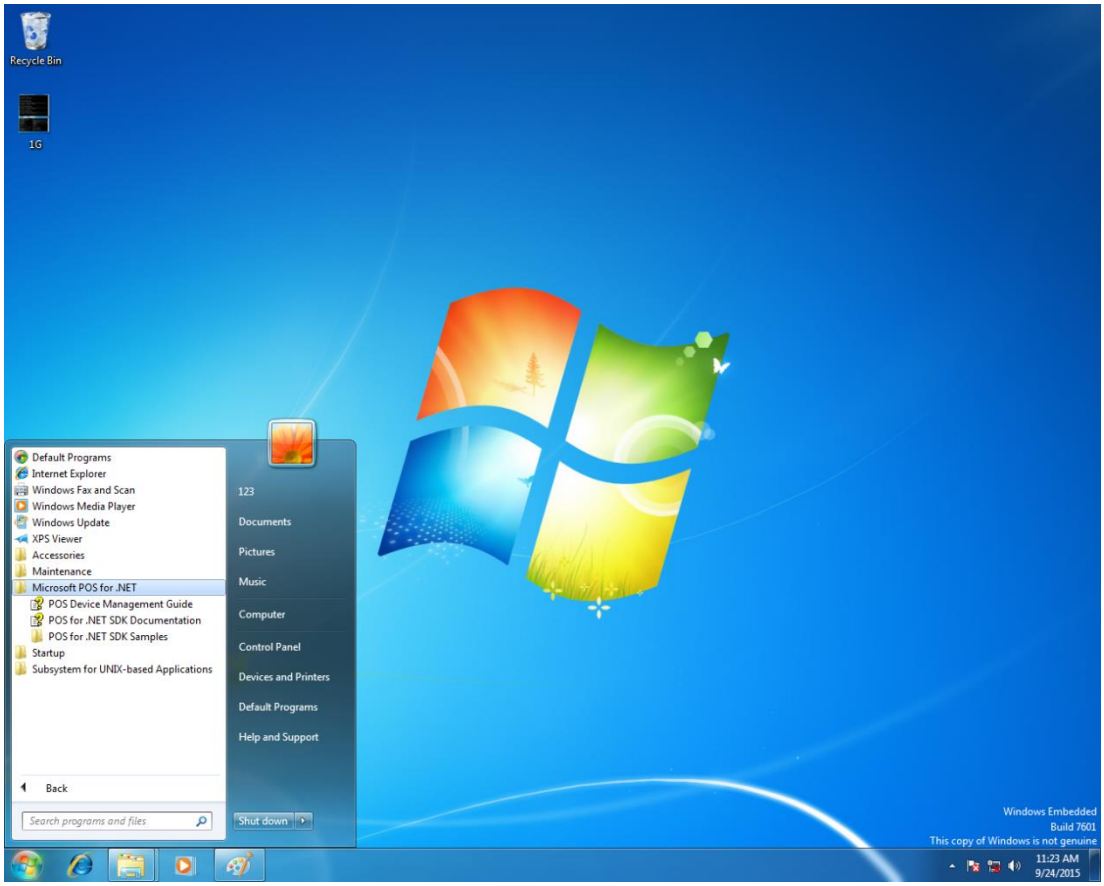


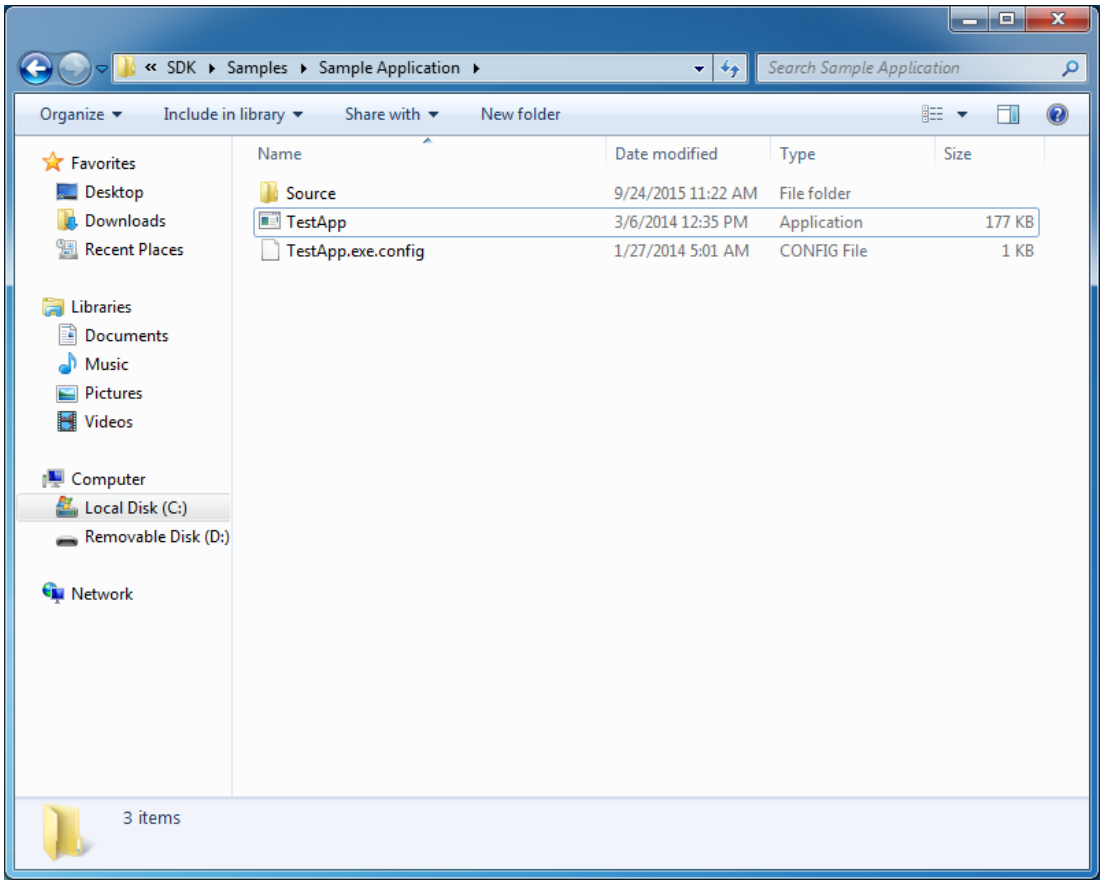


- Finish installation



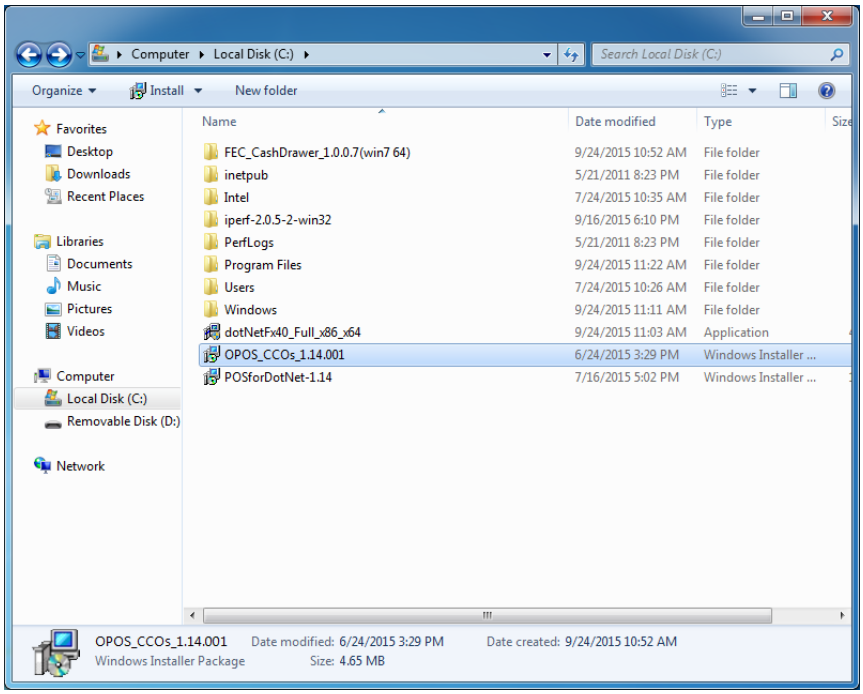
- Check Test Application of POSfor.Net has been installed


Recycle Bin
1G
Default Programs
Internet Explorer
Windows Fax and Scan
Windows Media Player
Windows Update
XPS Viewer
Accessories
Maintenance
Microsoft POS for .NET
POS Device Management Guide
POS for .NET SDK Documentation
POS for .NET SDK Samples
Startup
Subsystem for UNIX-based Applications
Back
Search programs and files
123
Documents
Pictures
Music
Computer
Control Panel
Devices and Printers
Default Programs
Help and Support
Shut down
Windows Embedded
Build 7601
This copy of Windows is not genuine
11:23 AM
9/24/2015


SDK ▸ Samples ▸ Sample Application ▸
Search Sample Application
Organize
Include in library
Share with
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
Removable Disk (D:)
Network
Name
Date modified
Type
Size
Source
9/24/2015 11:22 AM
File folder
TestApp
3/6/2014 12:35 PM
Application
177 KB
TestApp.exe.config
1/27/2014 5:01 AM
CONFIG File
1 KB
3 items

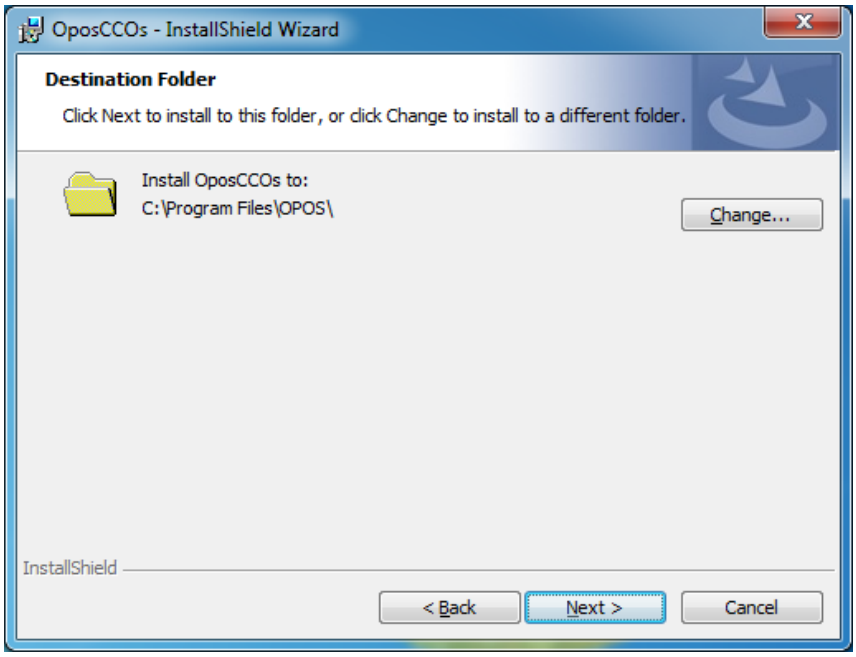
2.3. Common Control Object (CCO)

- Double-Click for POSforDoNet-1.14 to begin install

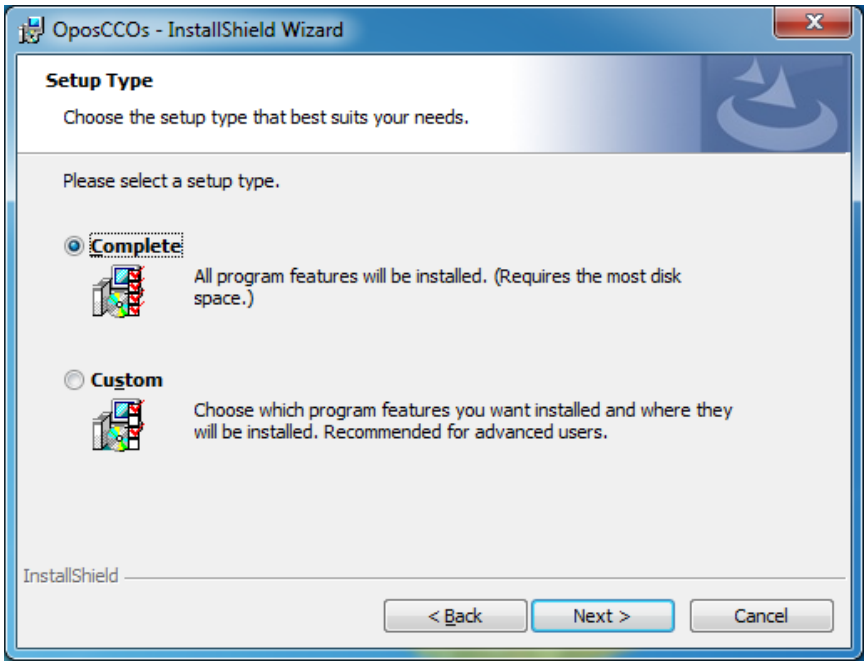


- First Screen for installation

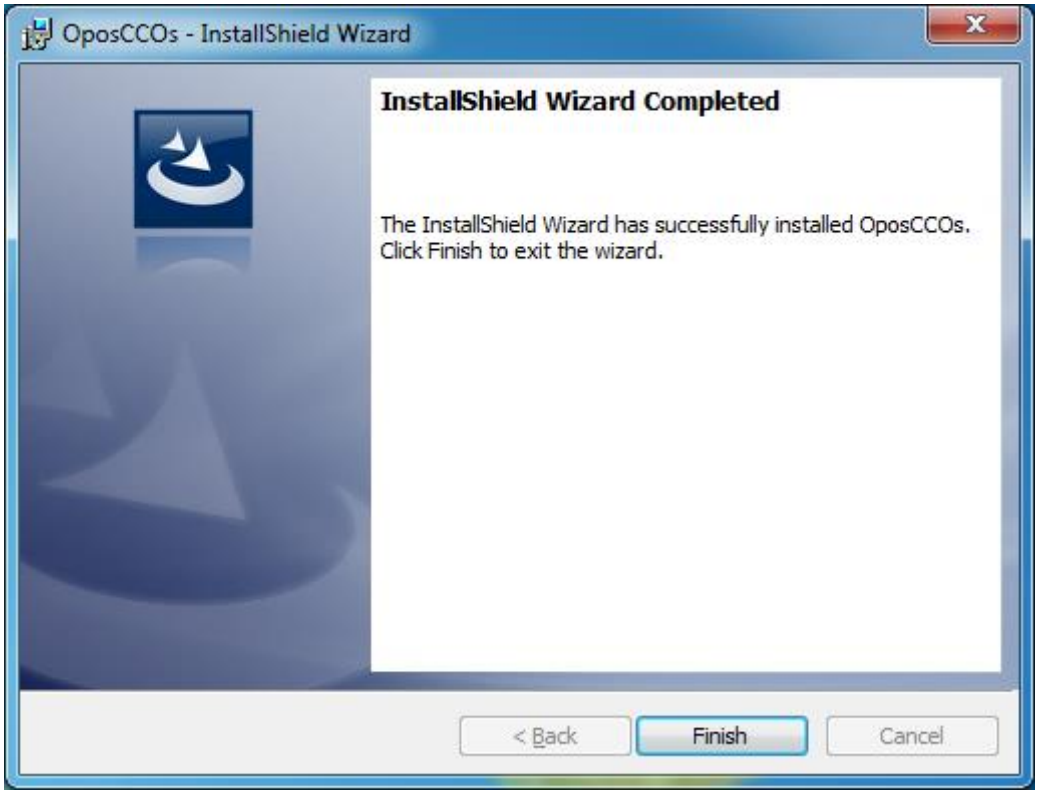
- Set up the install path for the program



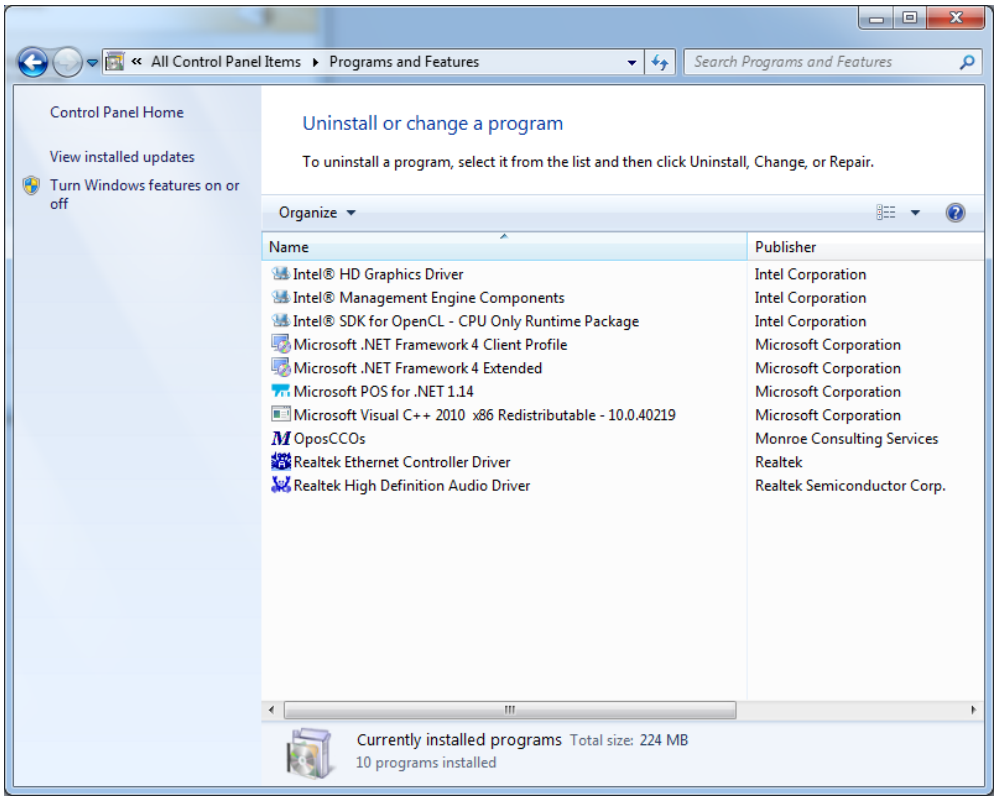
- Select setup type for complete



- Finish installation

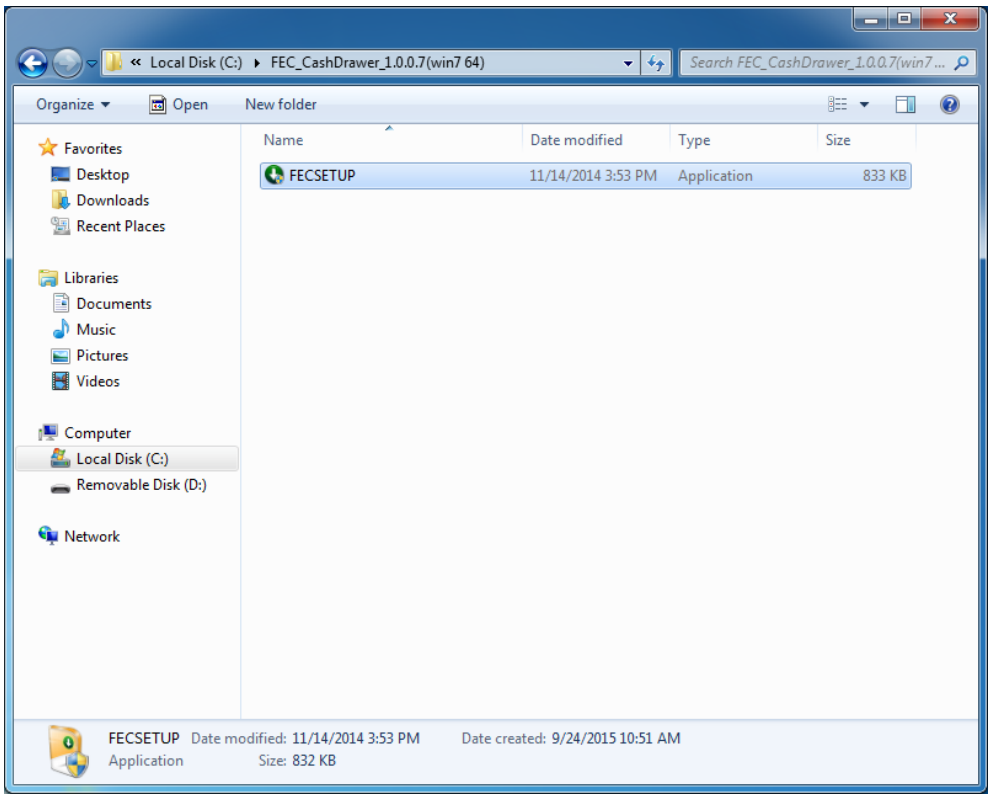


- Check CCOs has been installed

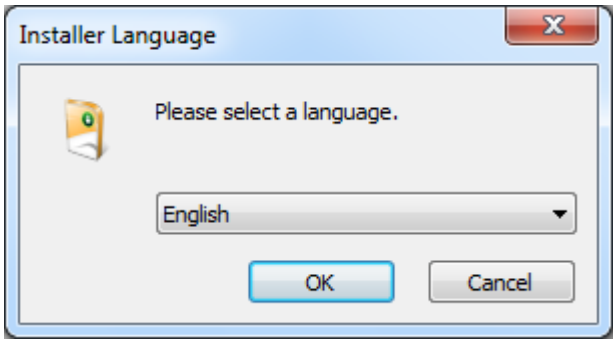


2.4. FEC OPOS Driver for CashDrawer

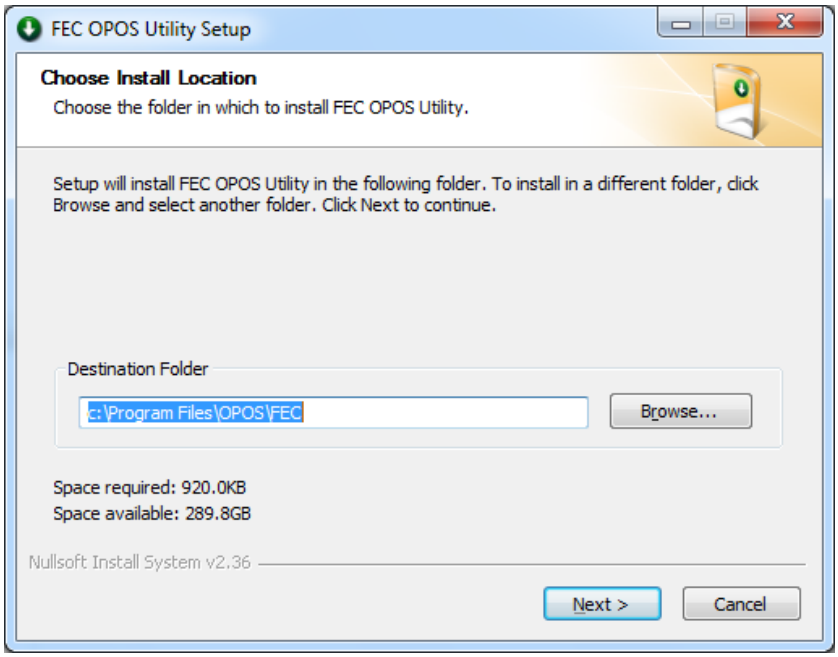
- Double-Click for FECSETUP to begin install



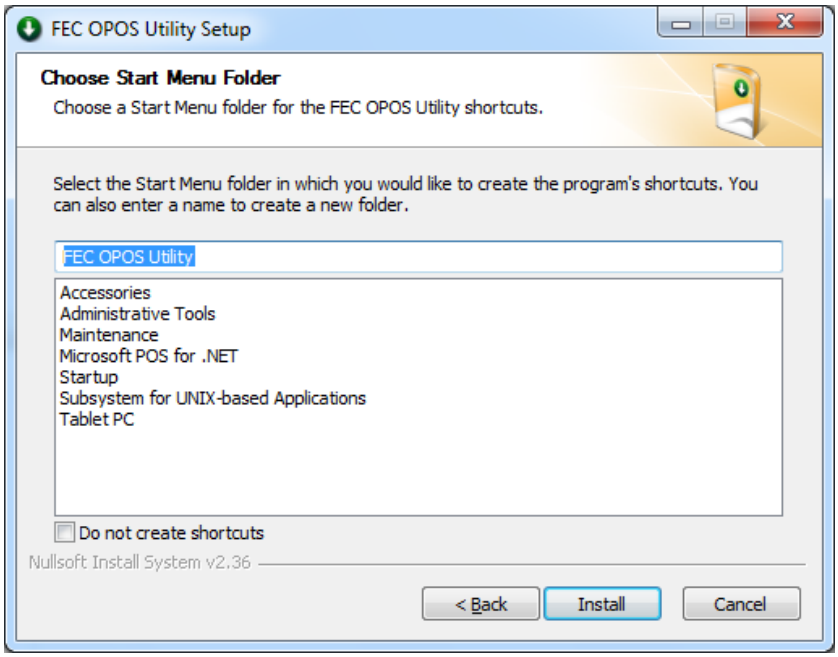
- Select Language for English



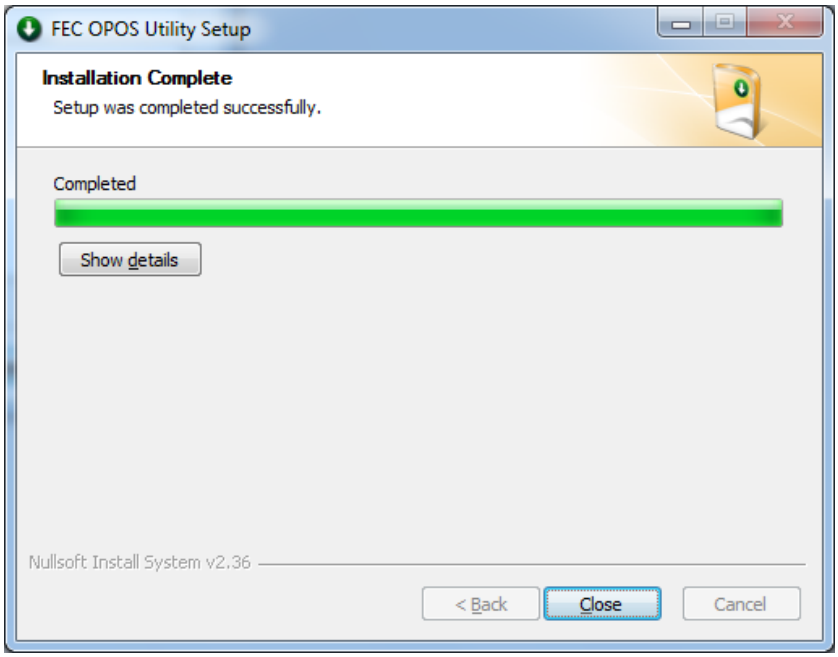
- Set up the install path for the program



- Choose start menu folder

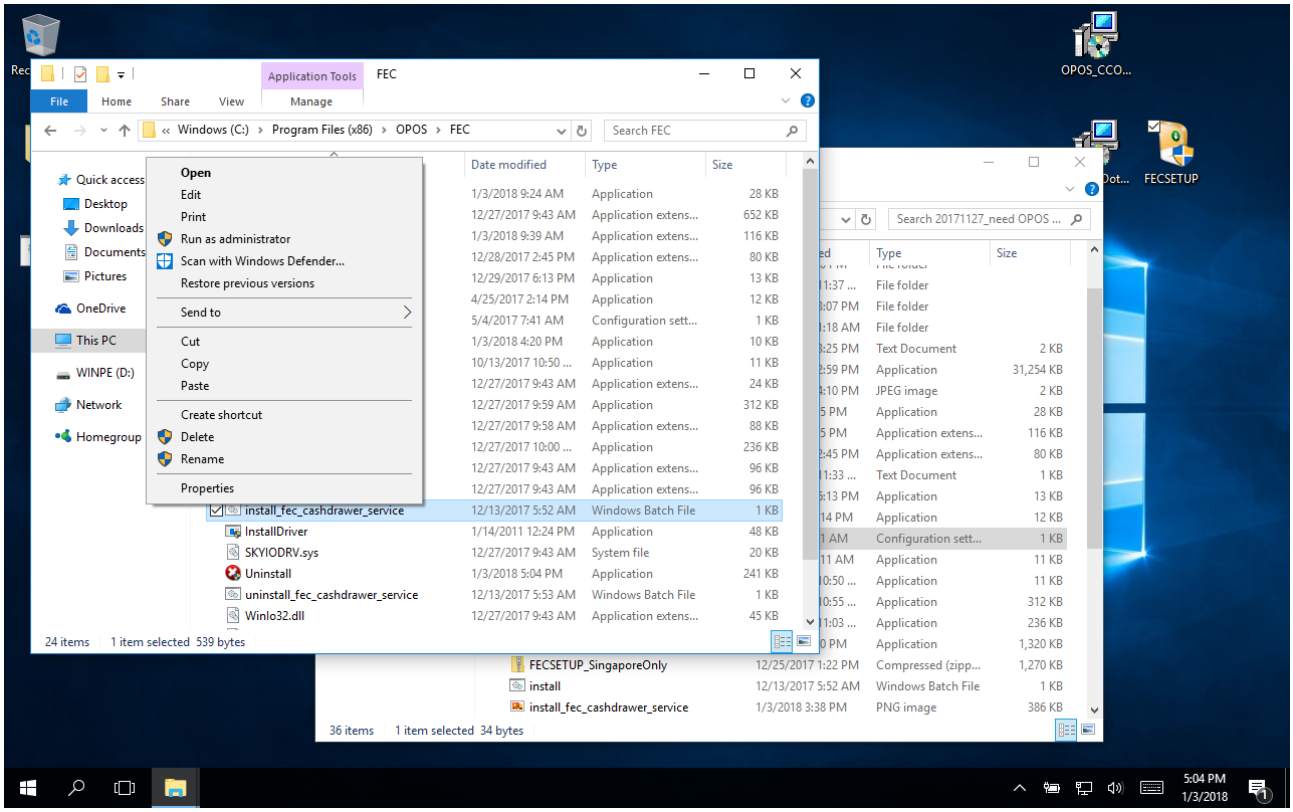


- Finish installation

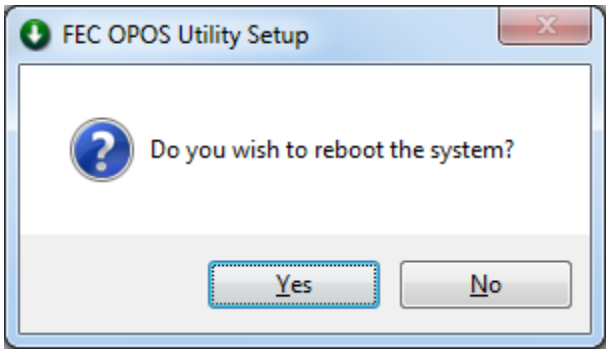


- **(Option)** If your FEC machine model are AT-1450/PP-1455/PP-1453(FH-Z8300\FH-Z8350) and you want running FEC OPOS at non-administrator privilege.

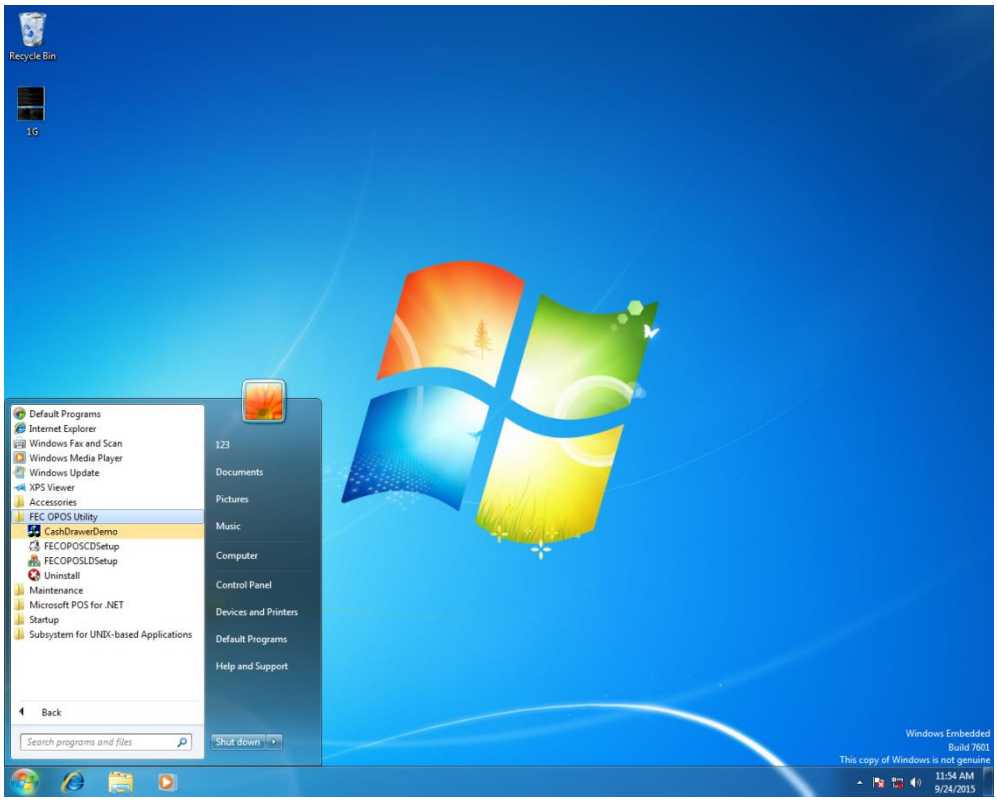
  Please use file explorer browser FEC OPOS installation folder (ex. C:\Program Files (x86)\OPOS\FEC), choice “install_fec_cashdrawer_service.bat” file, click right mouse button then click “Run as administrator” item to install service as below.After installed service, switch window to “FEC OPOS Utility Setup”



- Request for Reboot Windows, just click “Yes”

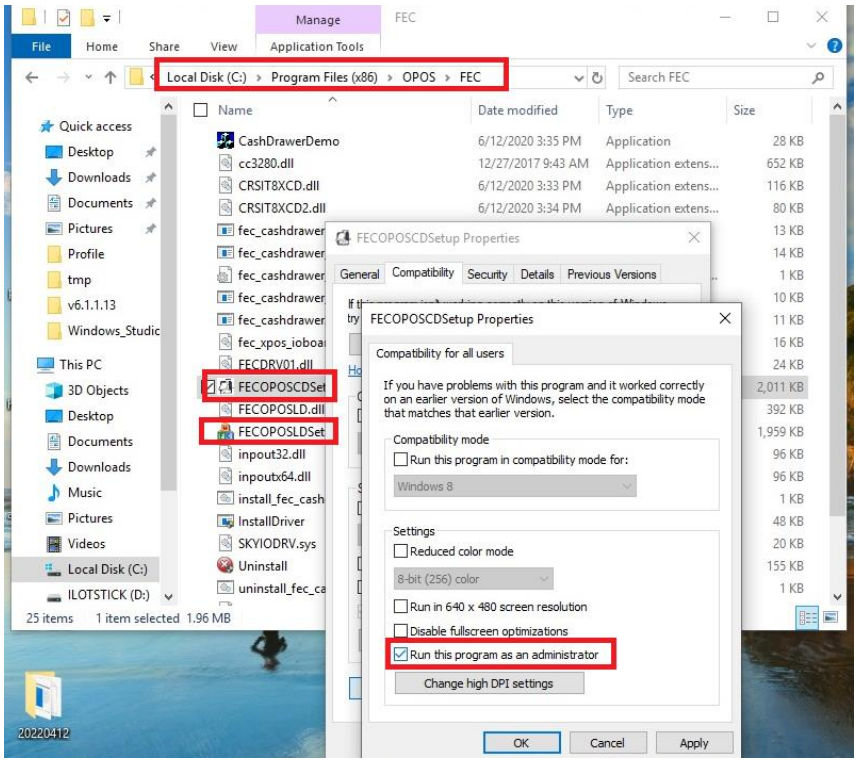


- Check FEC OPOS Driver has been installed



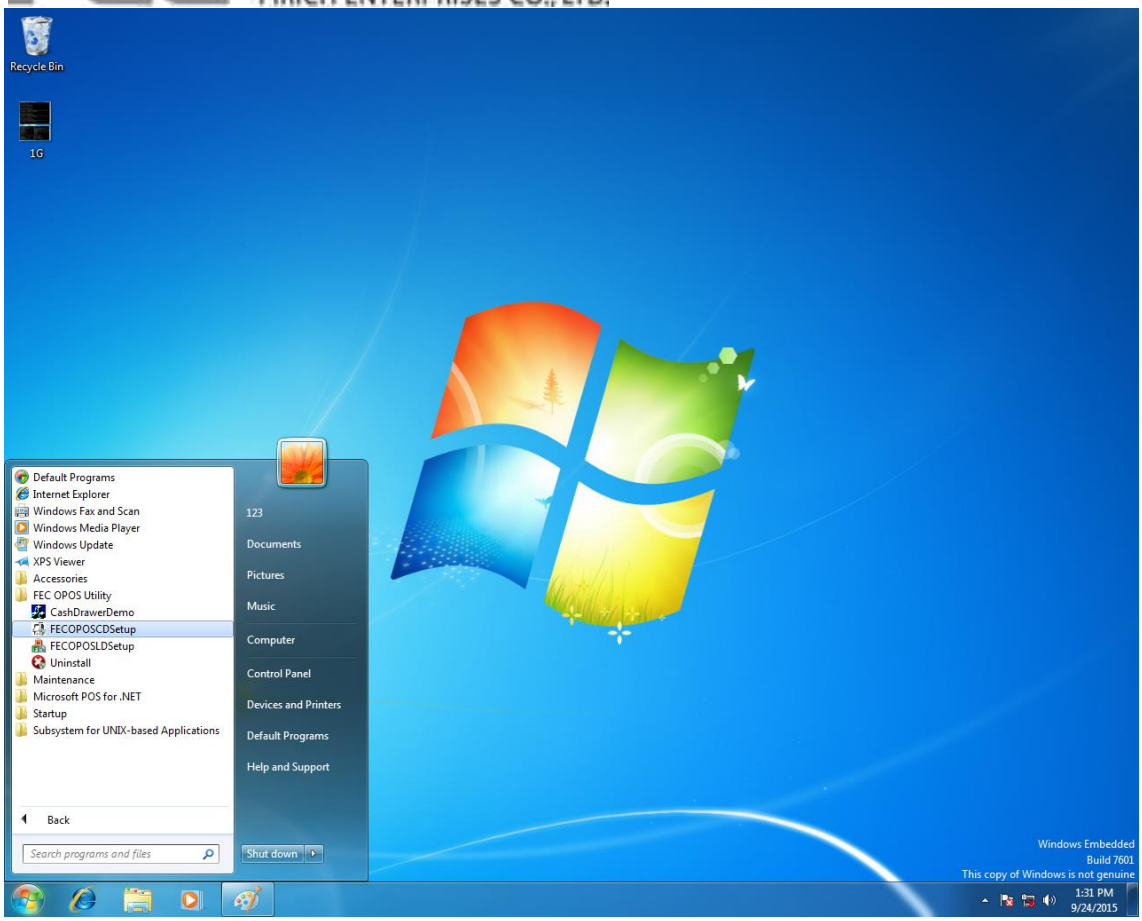
3. Setting up the file for executed as administrator

- Go to the default install path and make sure the file properties of the FECOPOSCDSetup.exe were been set “Run this program as administrator”.

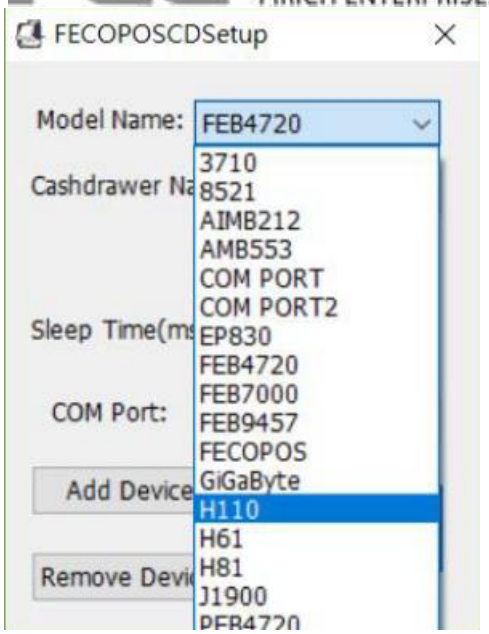


4. Setting up the Cash Drawer

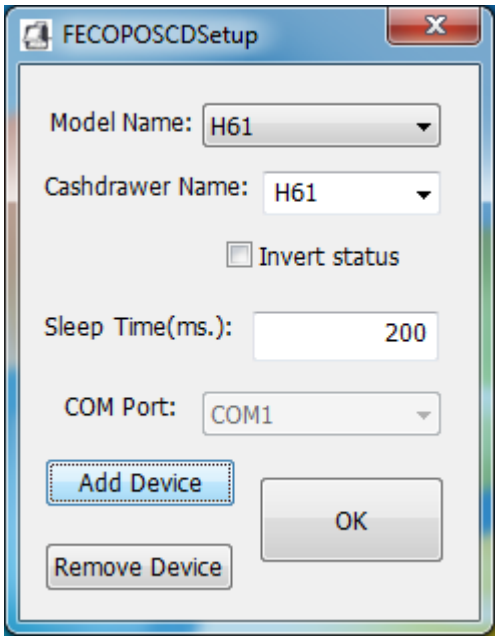
- Run FECOPOSCDSetup program for setting up cash drawer



- According to motherboard setting module name, and write the name of the corresponding cash drawer setting name
- Below showed Mother Board and Model Name Mapping
  - H61 model name for H61 mother board
  - Gigabyte model name for D525 mother board
  - J1900 model name for J1900 mother board
  - H81 model name for H81 mother board
  - FECOPS model name for FH-Z8300\ FH-Z8350 mother board
  - H110 model name for AP366X
  - Q170 model name for BP56X
  - SF570/FCLQ370ATX/FCLH310ATX model name for SFFPOS
  - FJ6412 model name for PP9735
  - FALSH/FALSQ model name for PP9745



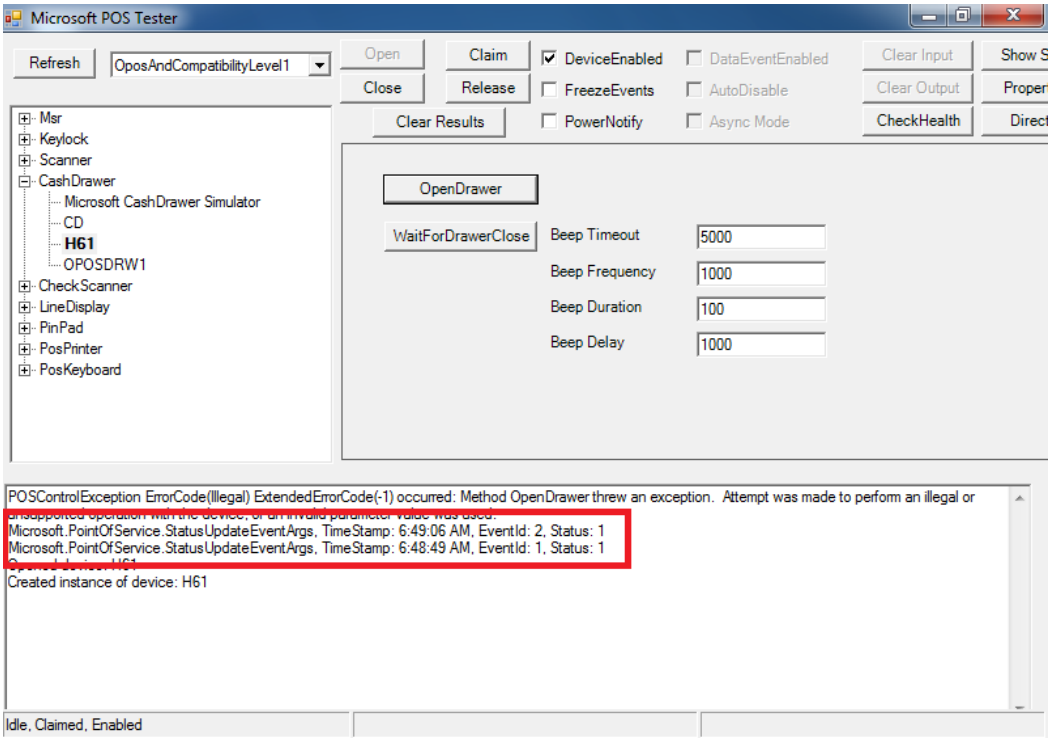
- Press “Add Device” button to add configuration, and Press “OK Button” to exit



5. How to Use the Cash Drawer by Test Application of POS for .Net

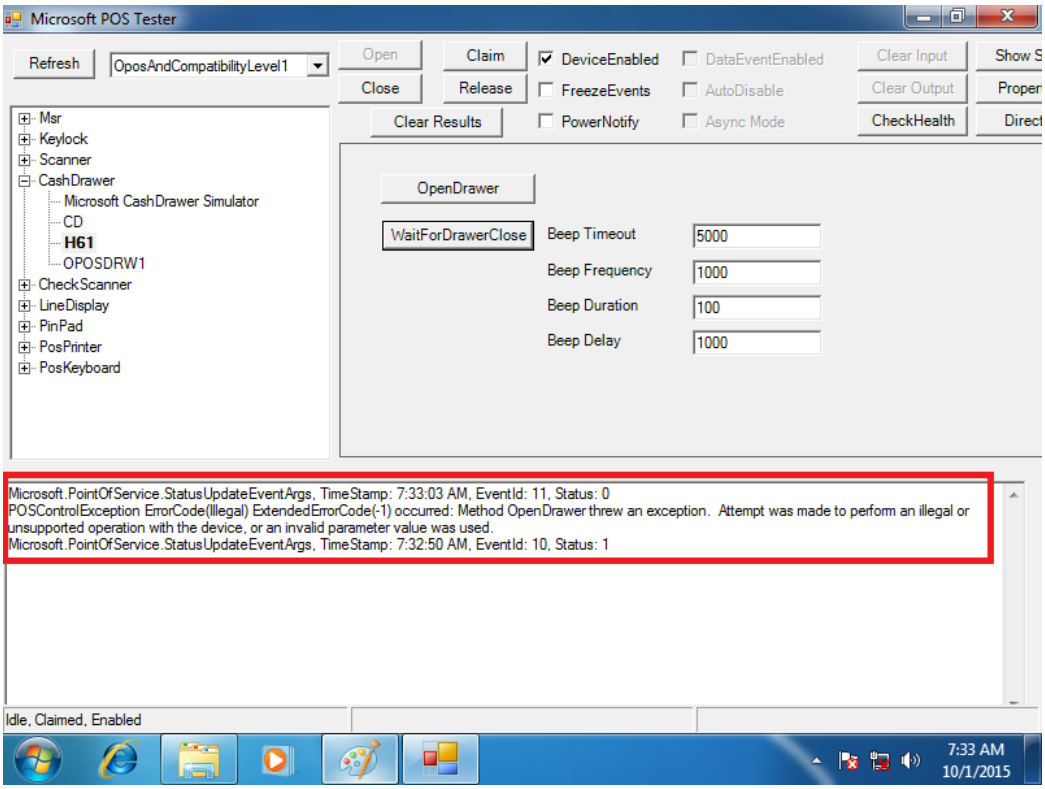
5.1. Open Cash Drawer

- Run TestApp program for testing cash drawer.
- Test App path default is C:\Program Files (x86)\Microsoft Point Of Service\SDK\Samples\Sample Application\
- Select device for Cash Drawer setting
- Continued according to press “Open” and “Claim” button and then checked DeviceEnabled check box to initialize cash drawer OPOS driver
- Press “OpenDrawer” button to trigger cash drawer opening, and showed message

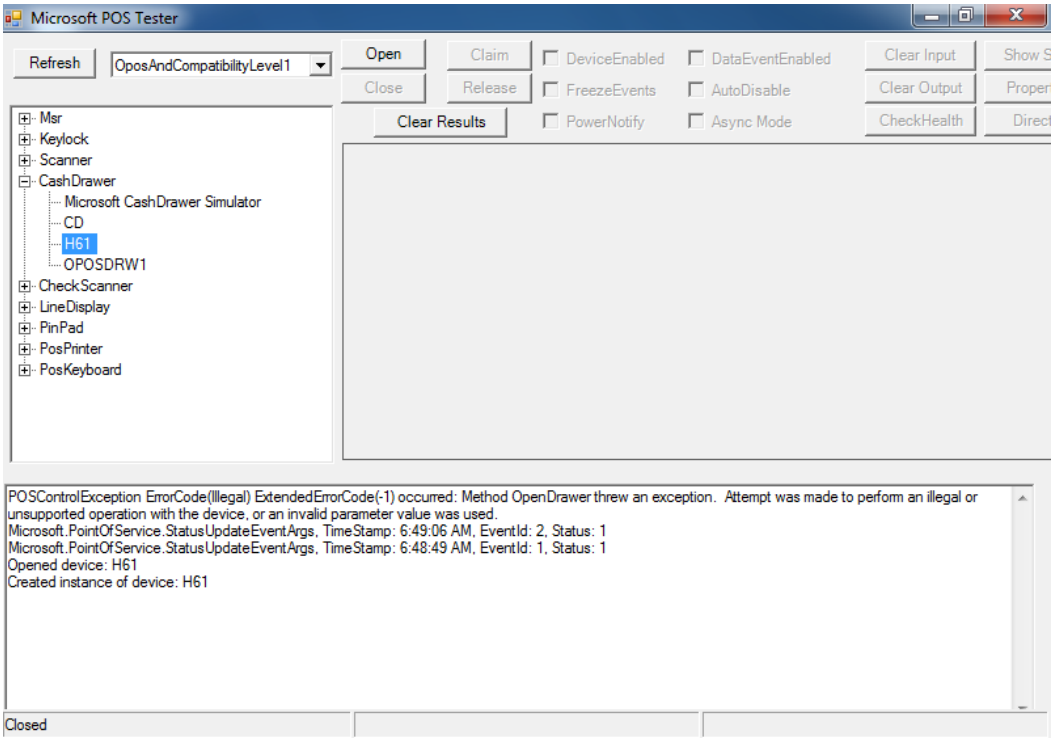


5.2. Wait for Cash Drawer Close

- Press “WaitForDrawerCloase” button to wait for event of drawer closed, and showed message

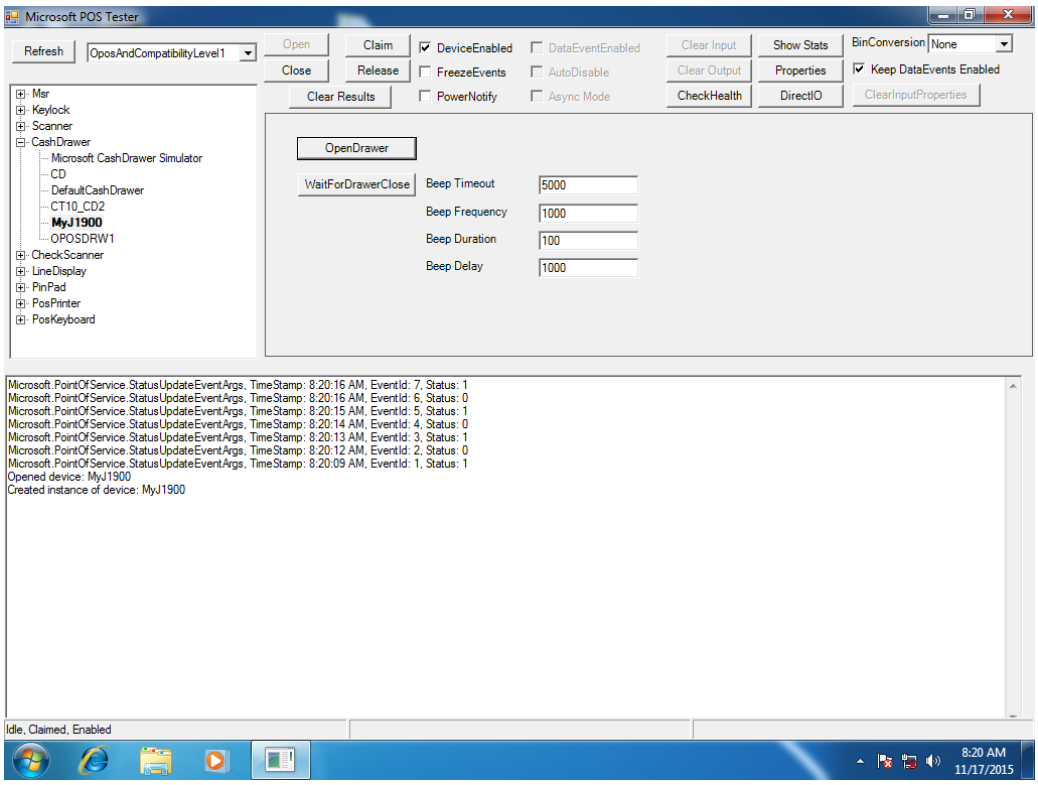


- Continued according to un-check DeviceEnabled check box, and then press “Release” and “Close” to terminate cash drawer OPOS driver



5.3. Auto update status event (Special Version)

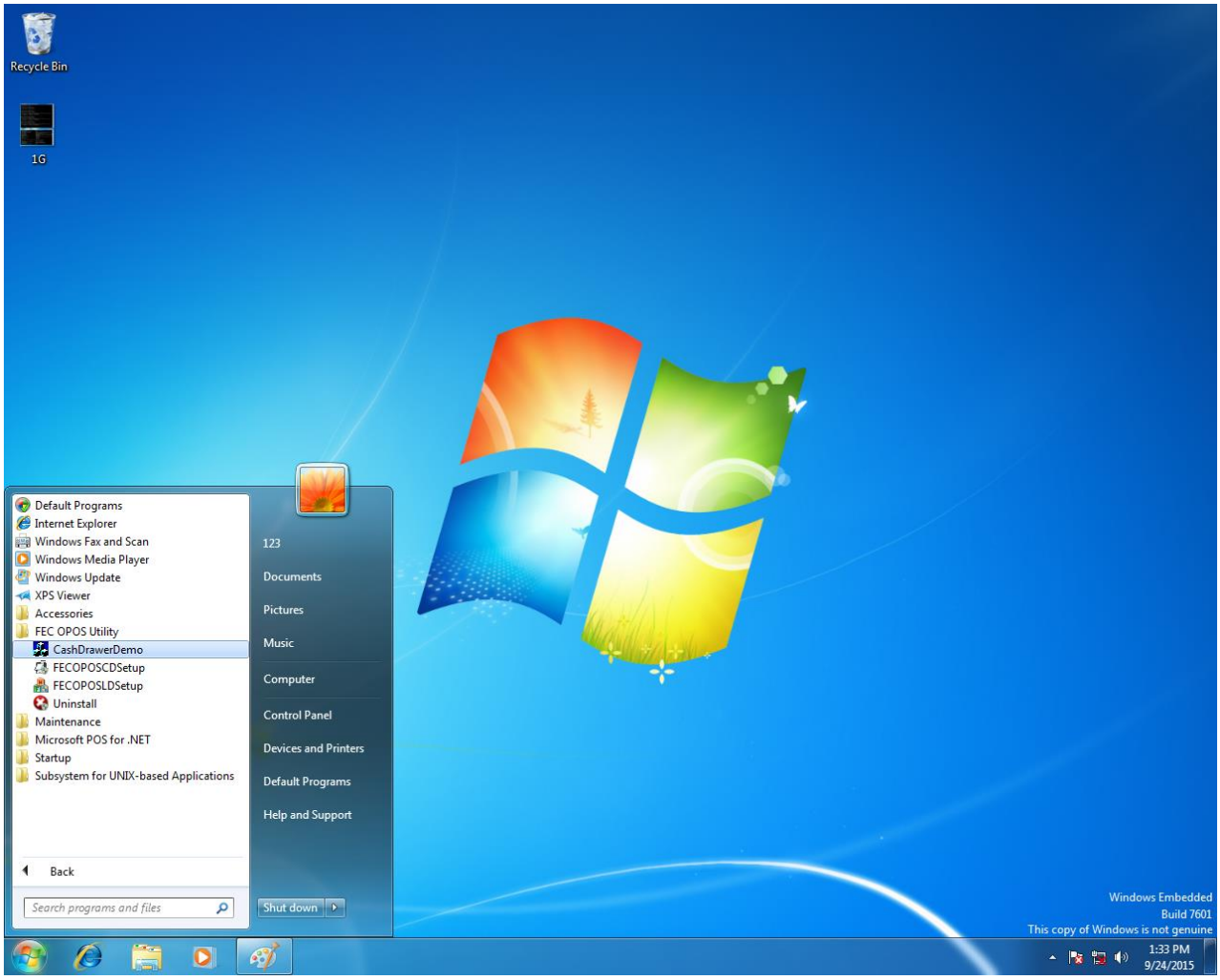
The test App will automatically receive the status update events if the driver enabled auto update status event functionality.



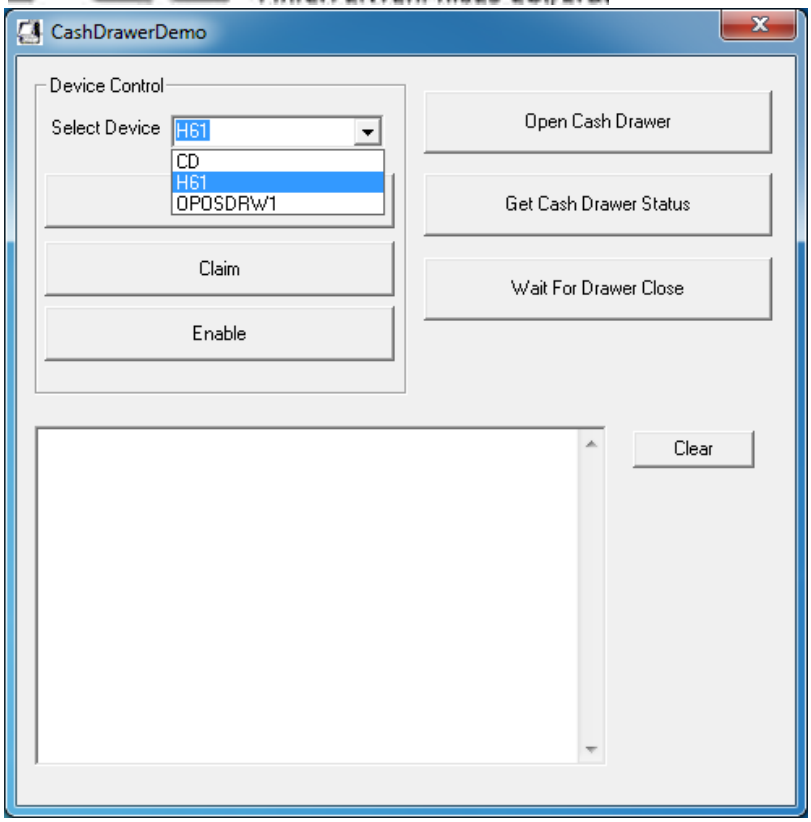
6. How to Use the Cash Drawer by FEC Test Application

6.1. Open Cash Drawer

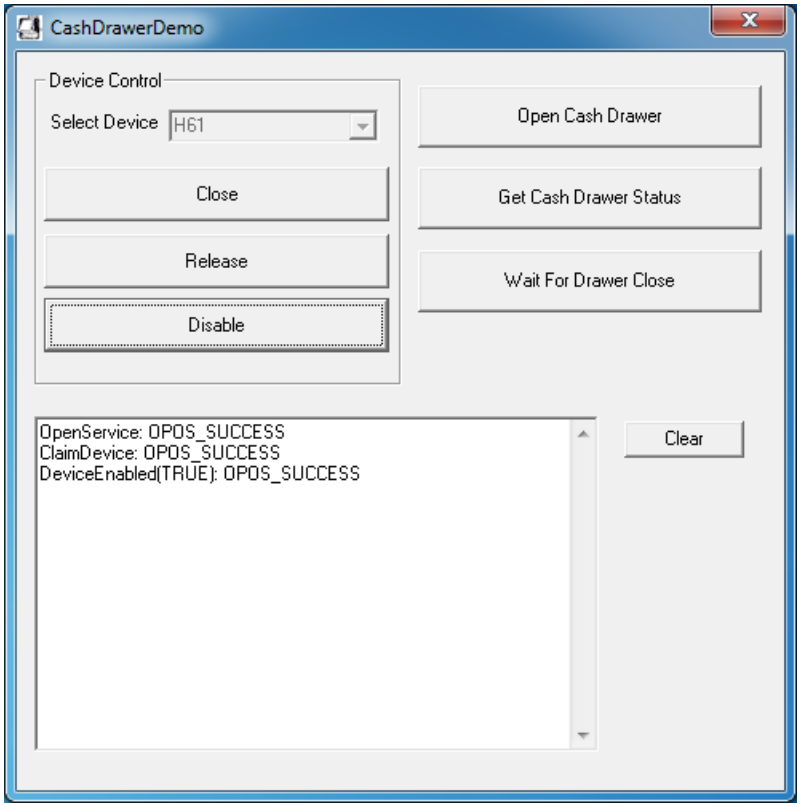
- Run CashDrawerDemo program for testing cash drawer



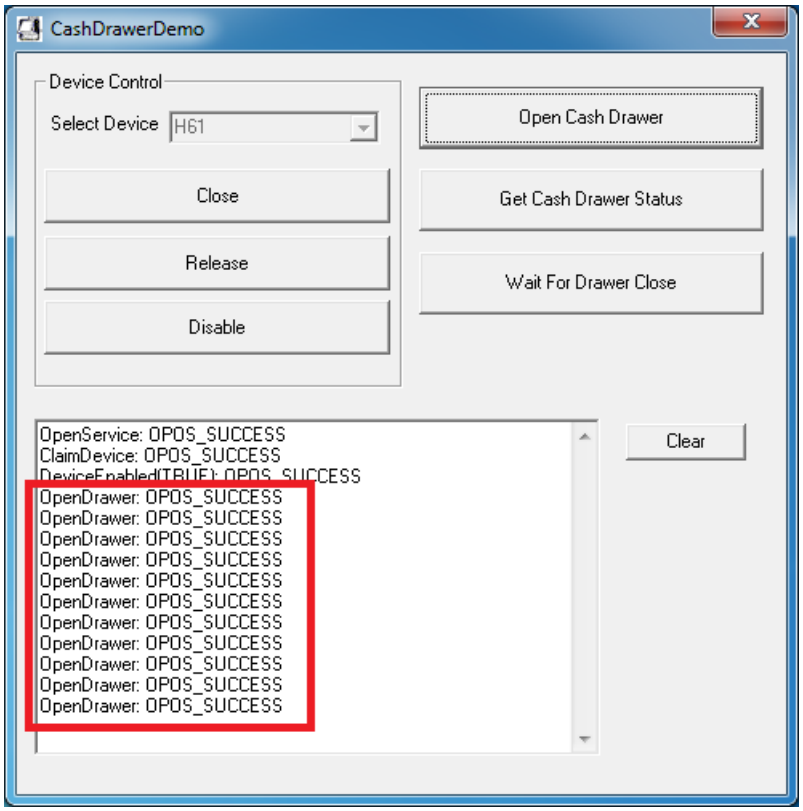
- Select device for Cash Drawer setting



- Continued according to press “Open”, “Claim” and “Enable” button to initialize cash drawer



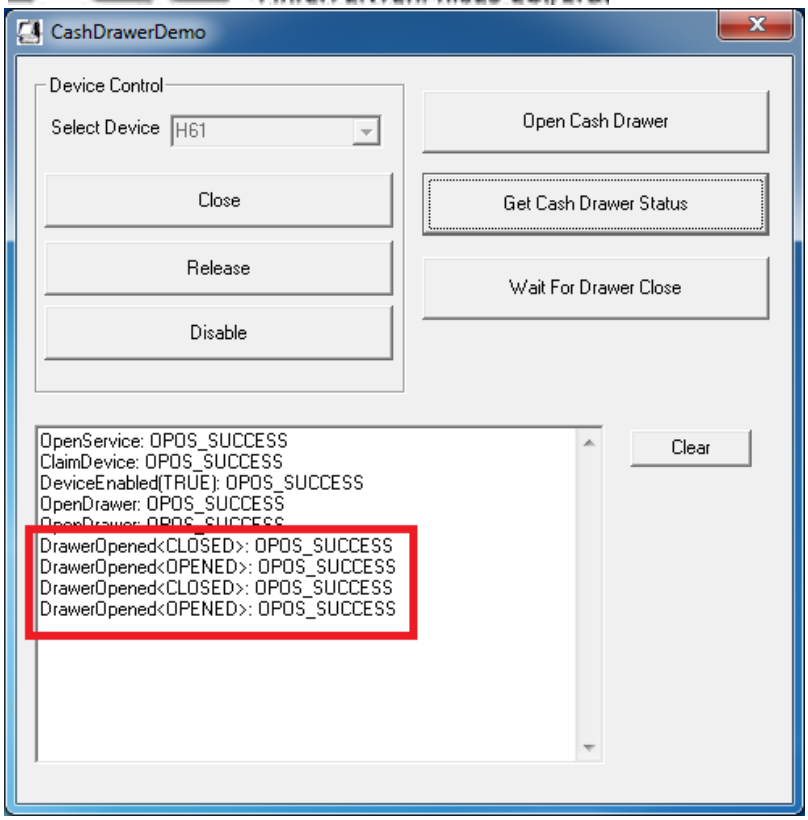
- Press button “Get Cash Drawer Status” to



6.2. Get Cash Drawer Status

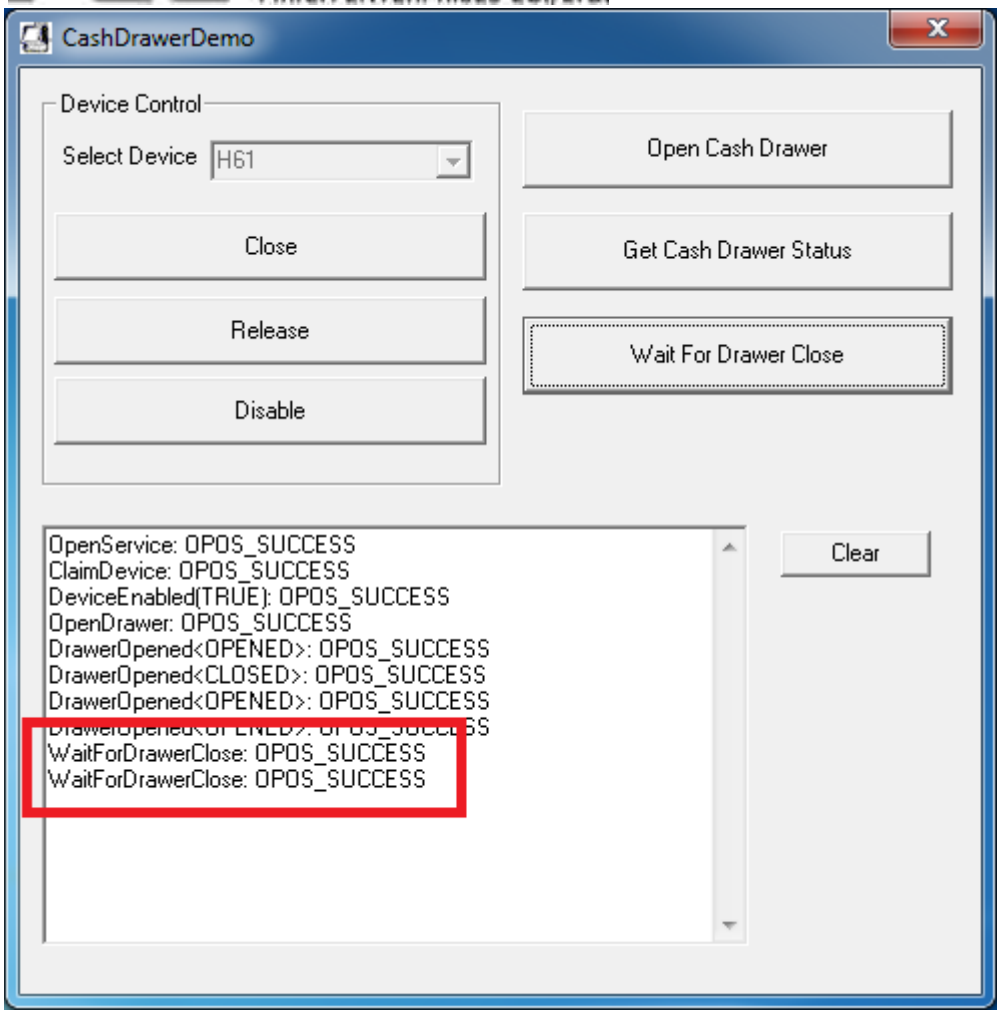
- Press button “Get Cash Drawer Status” to get status of cash drawer

  If you found status of cash drawer was in contrast with real, please go to FEC OPOS installation folder (ex. C:\Program Files (x86)\OPOS\FEC), modify “fec_cashdrawer_module.ini” file, set “Open Status Value = 0” or “Open Status Value = 1” to make sure status of cash drawer match with real.



6.3. Wait For Drawer Close

- Press button “Wait for Drawer Close” to wait for close event occur for cash drawer


CashDrawerDemo
Device Control
Select Device
H61
Close
Release
Disable
Open Cash Drawer
Get Cash Drawer Status
Wait For Drawer Close
Clear
OpenService: OPOS_SUCCESS
ClaimDevice: OPOS_SUCCESS
DeviceEnabled(TRUE): OPOS_SUCCESS
OpenDrawer: OPOS_SUCCESS
DrawerOpened<OPENED>: OPOS_SUCCESS
DrawerOpened<CLOSED>: OPOS_SUCCESS
DrawerOpened<OPENED>: OPOS_SUCCESS
WaitForDrawerClose: OPOS_SUCCESS
WaitForDrawerClose: OPOS_SUCCESS