



OPOS ADK User's Guide
Model 554A/854 USB Cash Drawer – Multi-Drawer

Product Specification – Part Numbers and Descriptions

Product Information	Description
APG OPOS MDUSB ADK v1211	OPOS Driver, Documentation, and Sample Applications Supports up-to four locally-connected APG Model 554A or 854 USB Cash Drawers UPOS v1.14 Windows (x86 / x64) Any Platform

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Overview

This document describes the installation, configuration, and use of software serving as an OPOS driver for the APG Model 554A and 854 USB Cash Drawer.

The solution installs components needed to develop OPOS applications compliant to UPOS v1.14 (or greater).

The solution supports up to four locally-connected Model 554A or 854 USB Cash Drawers.

The solution supports user-assign device names for each cash drawer.

This ADK installs and binds cash drawer service objects to the MCS Common Control Object Runtime Library v1.14.001 or greater. The OPOSCashDrawer.ocx Common Control Object may be optionally installed by this ADK.

Software Requirements

The APG OPOS MDUSB ADK V1211 software is compatible only with the Microsoft Windows® Operating Systems:

- Windows 7 / 32-bit

- Windows 7 / 64-bit

- Windows 10 / 64-bit



Driver Installation

Unpack the solution into a suitable temporary directory.

Navigate into the `\... \APG OPOS MDUSB ADK V1211 \install files` subfolder and launch the **Setup.EXE** application. Follow the prompts as directed to complete the installation.

Select whether to install the OPOS Cash Drawer Control Object (CCO).

The installation script installs the service object, built-in sample applications, and the OPOS Cash Drawer Common Control Object (CCO) at the user's option. Follow the subsequent prompts to complete the installation.

Per InstallShield documentation, this driver supports a scripted silent installation.

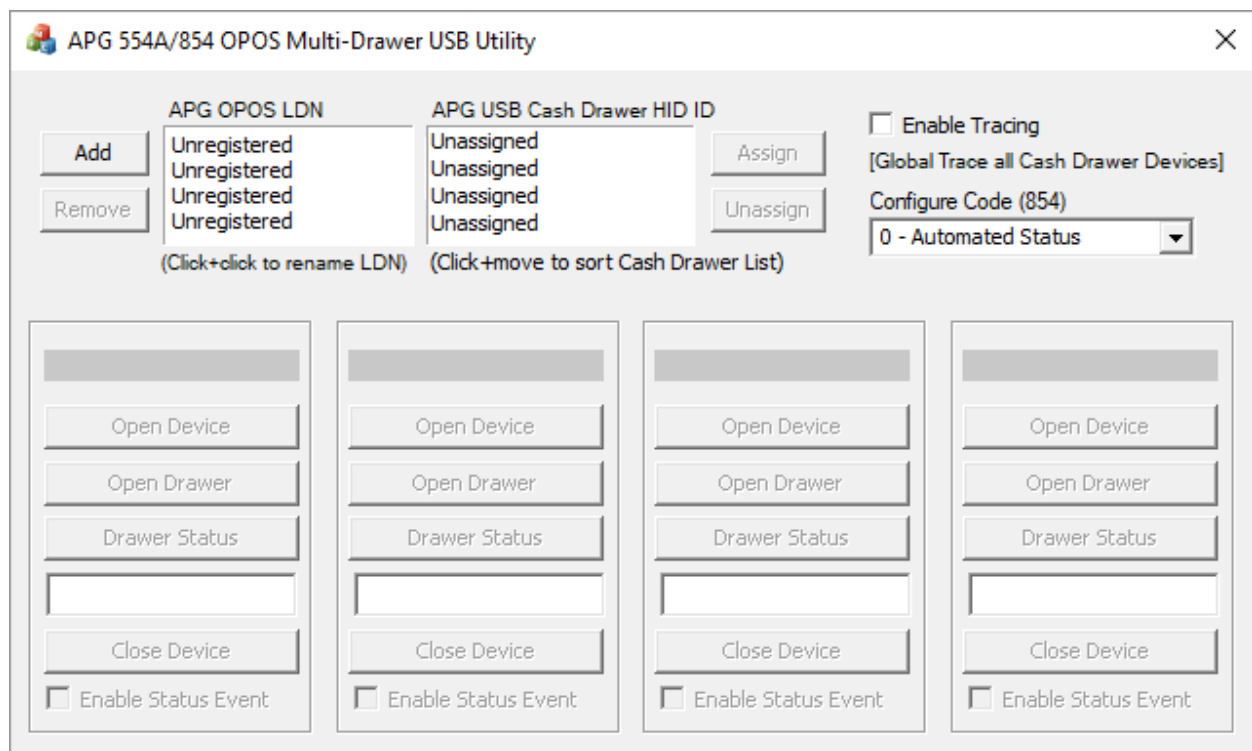
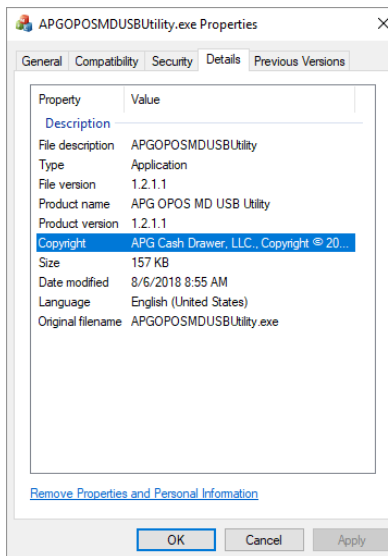
Driver Configuration

- Depending on the version of the operating system, navigate to:

C:\Program Files\APG Cash Drawer\OPOS

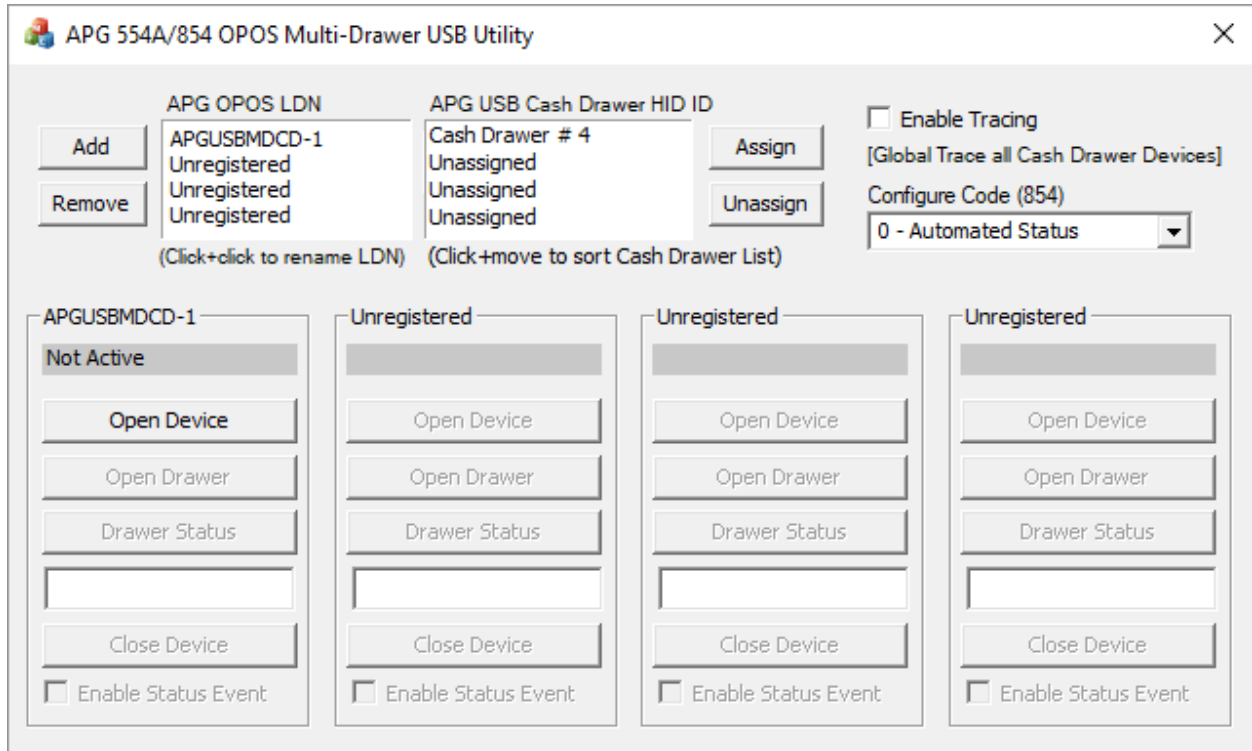
C:\Program Files(x86)\APG Cash Drawer\OPOS

- Right-click on the **APGOPOSMDUSBUtility.EXE** application and select 'Run as administrator'. Accept any UAC messaging.



Connect one APG Model 554A or 854 USB Cash Drawer to the system

- Click 'Add' to identify the first locally-connected cash drawer
- Click 'Assign' to provision the cash drawer to the local OPOS environment.



APG 554A/854 OPOS Multi-Drawer USB Utility

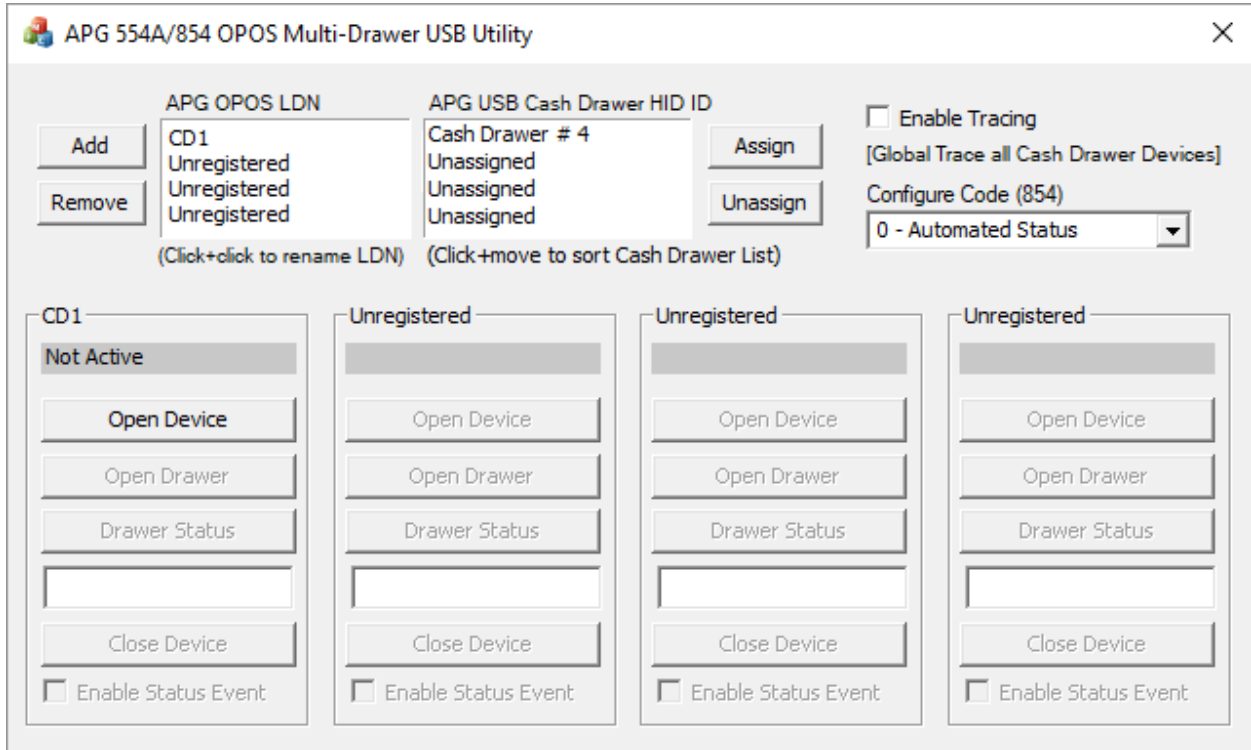
APG OPOS LDN		APG USB Cash Drawer HID ID		☐ Enable Tracing [Global Trace all Cash Drawer Devices] Configure Code (854) 0 - Automated Status	
Add	APGUSBMDCD-1	Cash Drawer # 4	Assign		
	Unregistered	Unassigned			
Remove	Unregistered	Unassigned	Unassign		
	Unregistered	Unassigned			

(Click+click to rename LDN) (Click+move to sort Cash Drawer List)

APGUSBMDCD-1	Unregistered	Unregistered	Unregistered
Not Active			
Open Device	Open Device	Open Device	Open Device
Open Drawer	Open Drawer	Open Drawer	Open Drawer
Drawer Status	Drawer Status	Drawer Status	Drawer Status
Close Device	Close Device	Close Device	Close Device
☐ Enable Status Event	☐ Enable Status Event	☐ Enable Status Event	☐ Enable Status Event

To assign a new Device Name for any cash drawer:

1. Click its name in the APG OPOS LDN list two times (Click+click to rename LDN).
 - a. Click to Select
 - b. Click to Change
2. Type the desired new name and press <Enter>.



APG 554A/854 OPOS Multi-Drawer USB Utility

APG OPOS LDN	APG USB Cash Drawer HID ID
CD1	Cash Drawer # 4
Unregistered	Unassigned
Unregistered	Unassigned
Unregistered	Unassigned

(Click+click to rename LDN) (Click+move to sort Cash Drawer List)

☐ Enable Tracing
[Global Trace all Cash Drawer Devices]
Configure Code (854)
0 - Automated Status

CD1

Not Active

Open Device

Open Drawer

Drawer Status

Close Device

☐ Enable Status Event

Unregistered

Open Device

Open Drawer

Drawer Status

Close Device

☐ Enable Status Event

Unregistered

Open Device

Open Drawer

Drawer Status

Close Device

☐ Enable Status Event

Unregistered

Open Device

Open Drawer

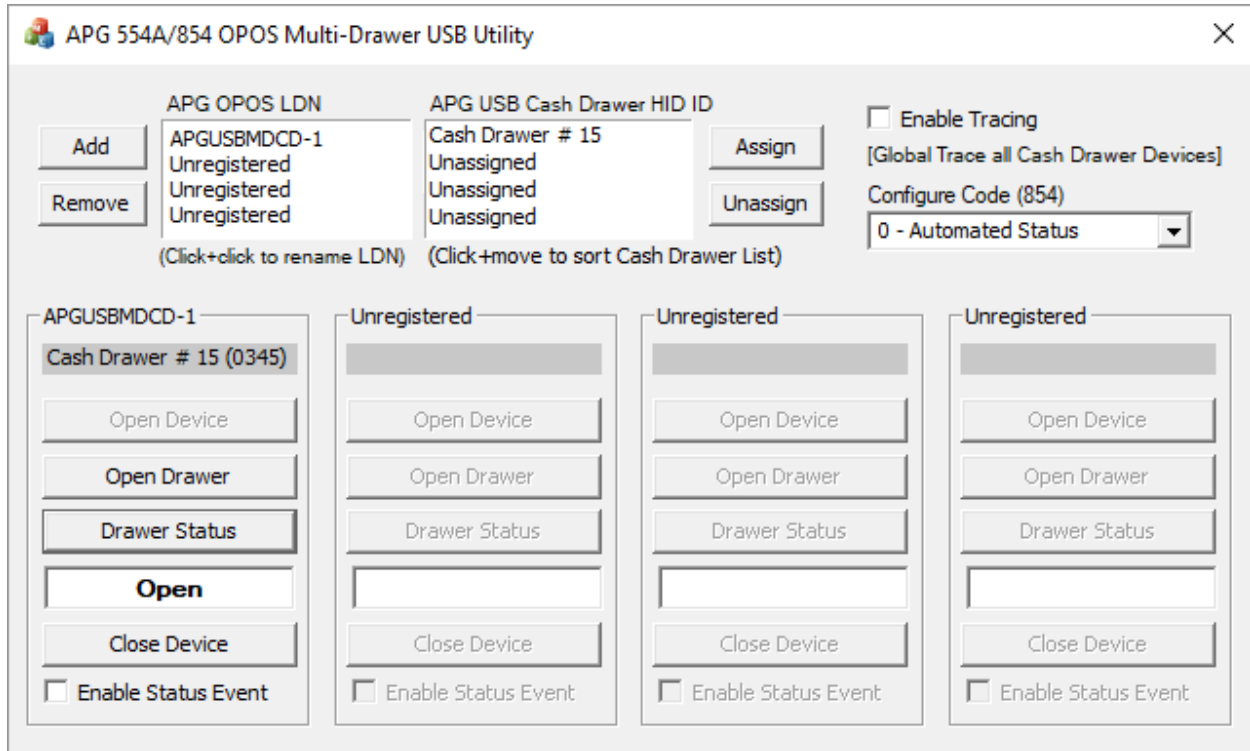
Drawer Status

Close Device

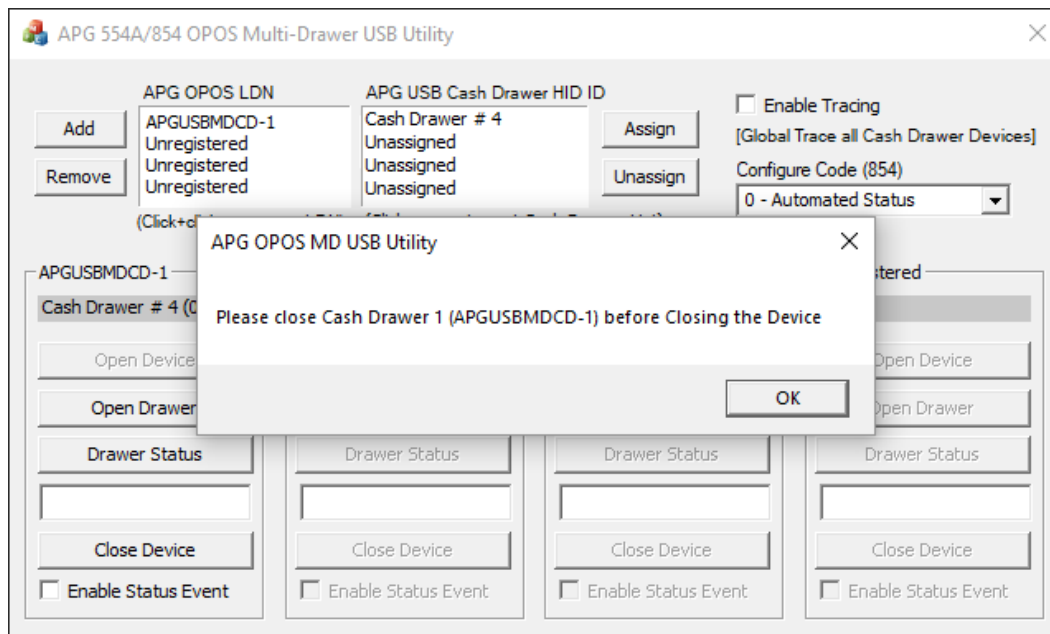
☐ Enable Status Event

Click 'Assign' to provision the cash drawer to the local OPOS environment.

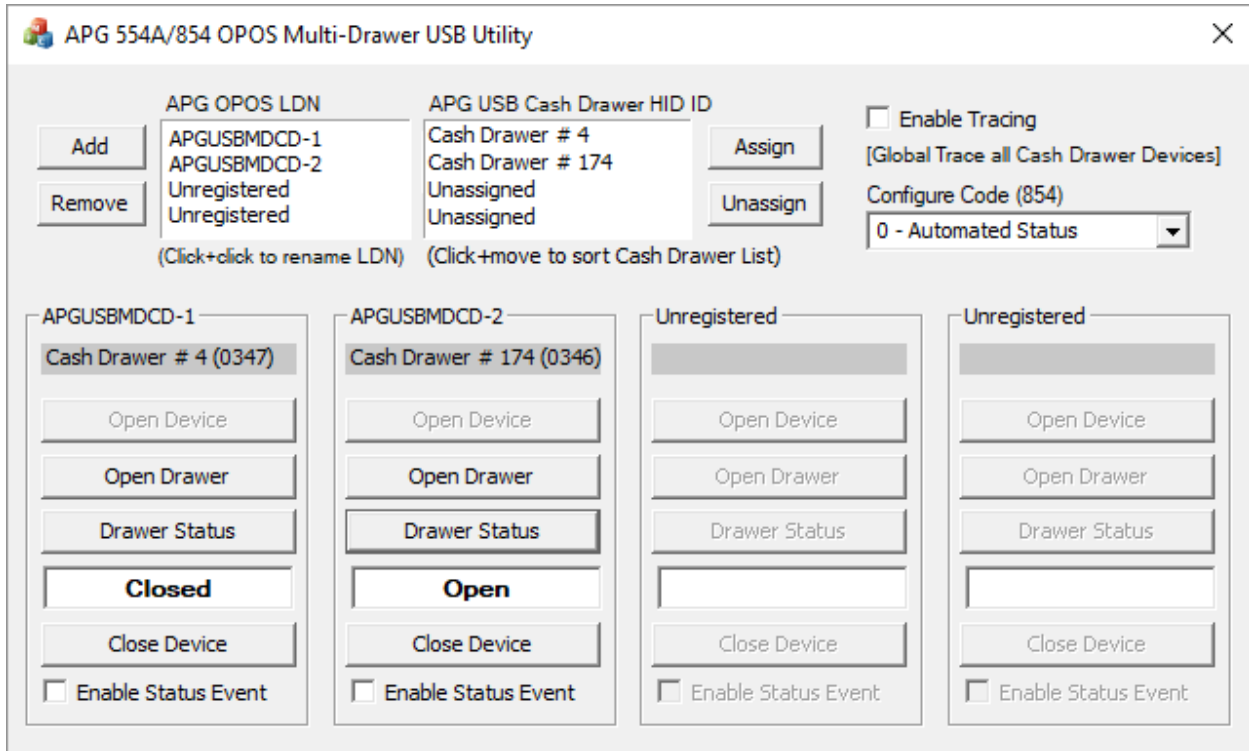
Follow the prompts presented in the first cash drawer menu choices to test the cash drawer.



The Model 554A Cash Drawer must be physically closed by the user before the OPOS device may be closed.



As desired and one at a time, connect subsequent cash drawer(s) to the PC and repeat the steps to Add each.



Enable Tracing.

When the Enable Tracing box is checked, the application updates the <TraceEnabled> tag in the M16I154_USB554A854Config.xml file located in the same folder.

When this tag's value is '1' (i.e. enabled), the DLL creates and saves a TXT file containing all DLL interactions to the C:\ProgramData\APG Cash Drawer\APG USB folder. The trace file name is of the following form: 'tM16I154_YYMMDDHHMMSS.txt'

A representative trace file is shown in the embedded file immediately below.



tM16I154_20181111082859.TXT



Configure Code.

The APG Model 854 USB Interface Cash Drawer supports the Windows 10 Power Management model. The Configure Code dropdown provides three options:

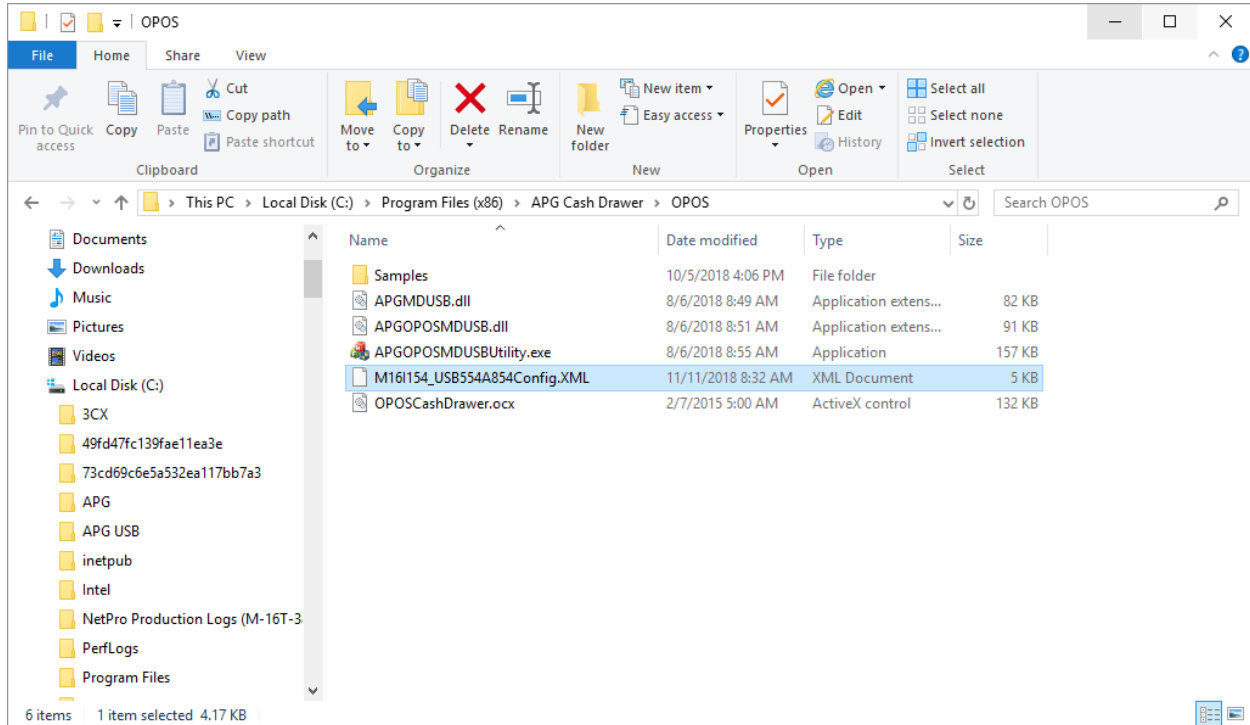
- 0 = Automated Status: The DLL will invoke the persistent ProcessThread to keep the HID USB Port alive with re-establishing connection at timed intervals. The DLL receives all drawer status changes.
- 1 = Semi-Automated Status: The DLL will only re-establish cash drawer (HID USB) connection upon the DrawerStatus() function, and report current drawer status. The cash drawer will be allowed to go to sleep after six seconds of inactivity. When the cash drawer is in sleep mode, manual drawer operations will not be captured.
- 2 = Non-Automated Status: The DLL will only establish cash drawer (HID USB) connection on DrawerOpen() instruction. Working as a native, direct communication, the drawer status is reported only briefly after the drawer is opened.

On completion, the application will update the <ConfigureCode854> tag in the M16I154_USB554A854Config.xml file located in the same folder.

Driver Use

Upon completion of the above, the APG 554A/854 OPOS Quick-Fire USB Utility has tailored the M-16I154_USB554A854Config.XML file to the local environment. Optionally, the user may update this XML file manually.

The service object requires that the XML is co-located.



Navigate into the 'Samples' sub-folder. OPOS-compliant demonstration applications are offered there as is the source code used to build them. These applications have been built on the Microsoft Visual Studio 2015 IDE.

With questions or for more information, contact the APG Cash Drawer Technical Services and Support Team.

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