

IOC-1.4.35.0 Installation/Uninstallation Guide

Revision History

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1. Introduction

1.1 Purpose and Scope of this Document

This document will Universal Windows Driver Compliance migration for Intel Online Connect HID and Network filter driver. This document also covers changes required in INF, driver code, installer packages and issues one might face during migration. This document will call-out for risks identified to make Intel online connect stack UWD compliance.

1.2 Terminology

Term	Description
UWD	Universal Windows Driver
HID	Human Interface Device
UWP	Universal Windows Platform.
INF	Driver or service Installation information file

1.3 Reference Documents

Ref	Document Name	Version	File/Location

1.4 Document Convention

All open and to-be-defined (TBD) issues are highlighted in yellow.

2. Requirements

Universal Windows drivers enable developers to create a single driver package that runs across multiple different device types, from embedded systems to tablets and desktop PCs.

A Universal Windows driver is a driver package that contains an INF file and binaries that will install and run on Universal Windows Platform (UWP) based editions of Windows 10, such as Windows 10 for desktop editions (Home, Pro, and Enterprise), Windows 10 S, Windows 10 Mobile, Windows 10 IoT Core, Windows Server 2016, as well as other Windows 10 editions that share a common set of interfaces.

While creating universal driver package, there are four design principles to consider:

Declarative: Use directives in the INF file for installation operations and not extension points such as co-installers, RegisterDlls, etc.

Componentized: System and/or OEM-specific customizations are in an extension INF driver package separate from the primary driver package, facilitating independent updates of different components owned by different organizations.

Hardware Support Apps (HSA): Use custom capabilities to associate a hardware-specific UWP (Universal Windows Platform) application with your driver. The resulting app can be delivered and serviced from the Windows Store.

Universal API compliance: Binaries in the universal driver package only call APIs and DDIs that are included in the OneCore subset. INF files use only universal INF syntax.

3. Scope

To make the IOC setup adhere to Windows universal compliance requirements, installation of HID driver and launching IOC Setup using Extension and Component INF.

Prerequisites:

- Windows 10 RS3 1703 build or later is required
- Intel ME to be installed
- The test system is to be connected to internet

3.1 Current Scenarios

The IOC setup consists of UAF and U2F components. All components are bundled together as SetupIOC.exe, which used to install Intel Online Connect Components.

To adhere to Universal compliance requirements, the HID UMDF 2 driver and SetupIOC.exe has to be installed separately using INF.

4. Installation Steps

4.1 Procedure to Install the Extension INF

Direct Install:

- Right click on Extension.inf file, and click on install.
- INF is installed successfully

4.2 Procedure to Install the SetupIOC Component INF

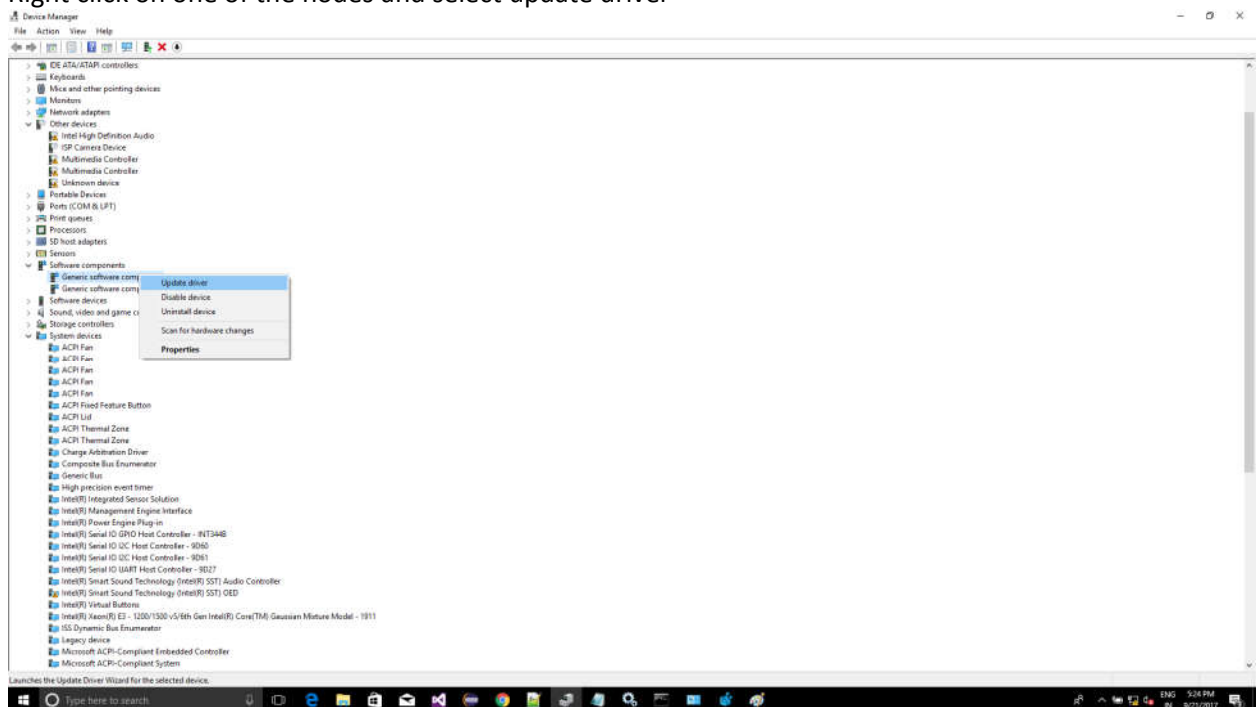
Direct Install:

- Right click on SetupIOC_Component.inf, and click on Install
- The INF is installed successfully

OR

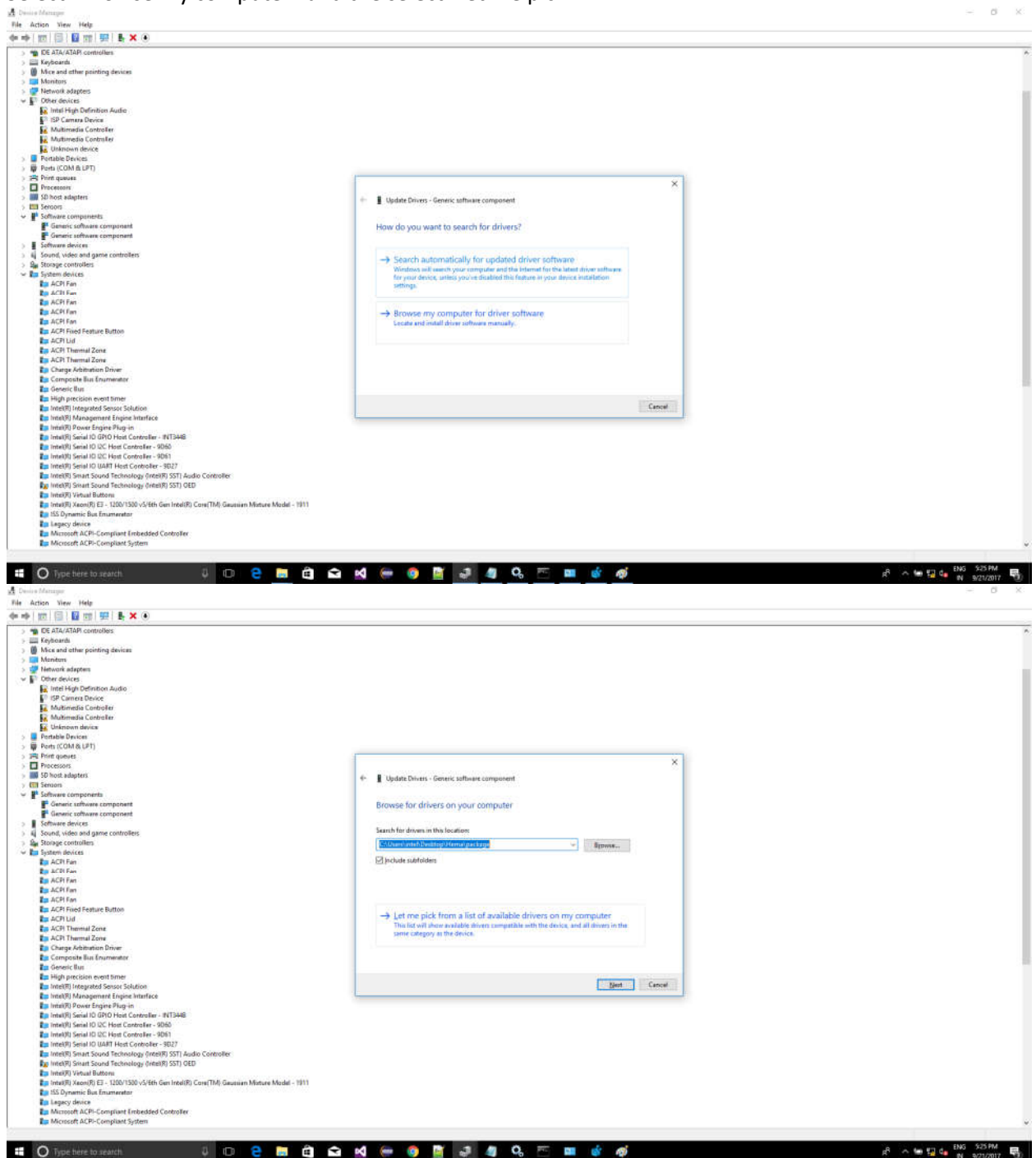
Install from Device manager:

- Open Device manager
- Under the Software Components section, two Generic Software Components nodes will be created
- Right click on one of the nodes and select update driver



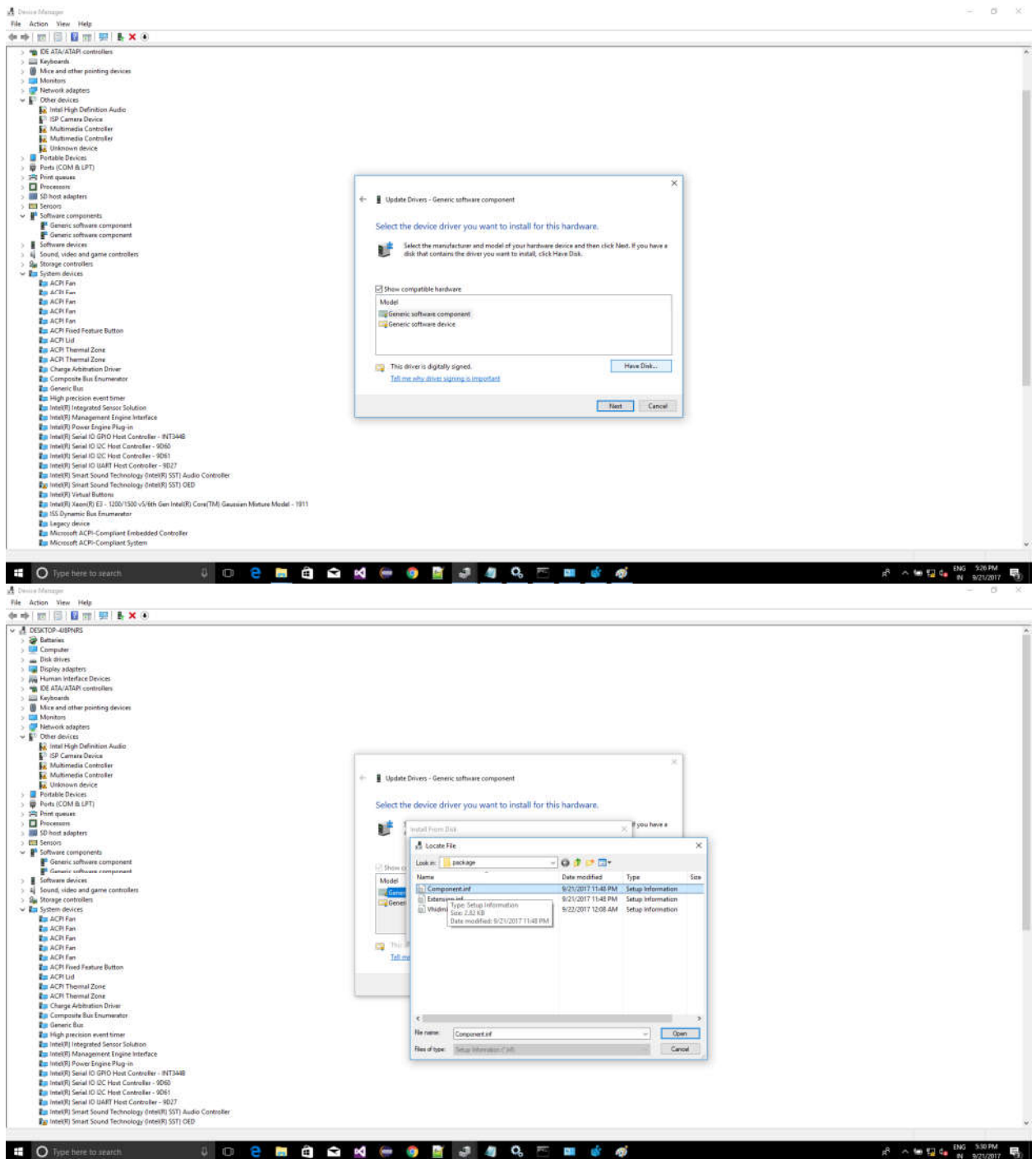
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- Select “Browse my computer” and the select “let me pick...”

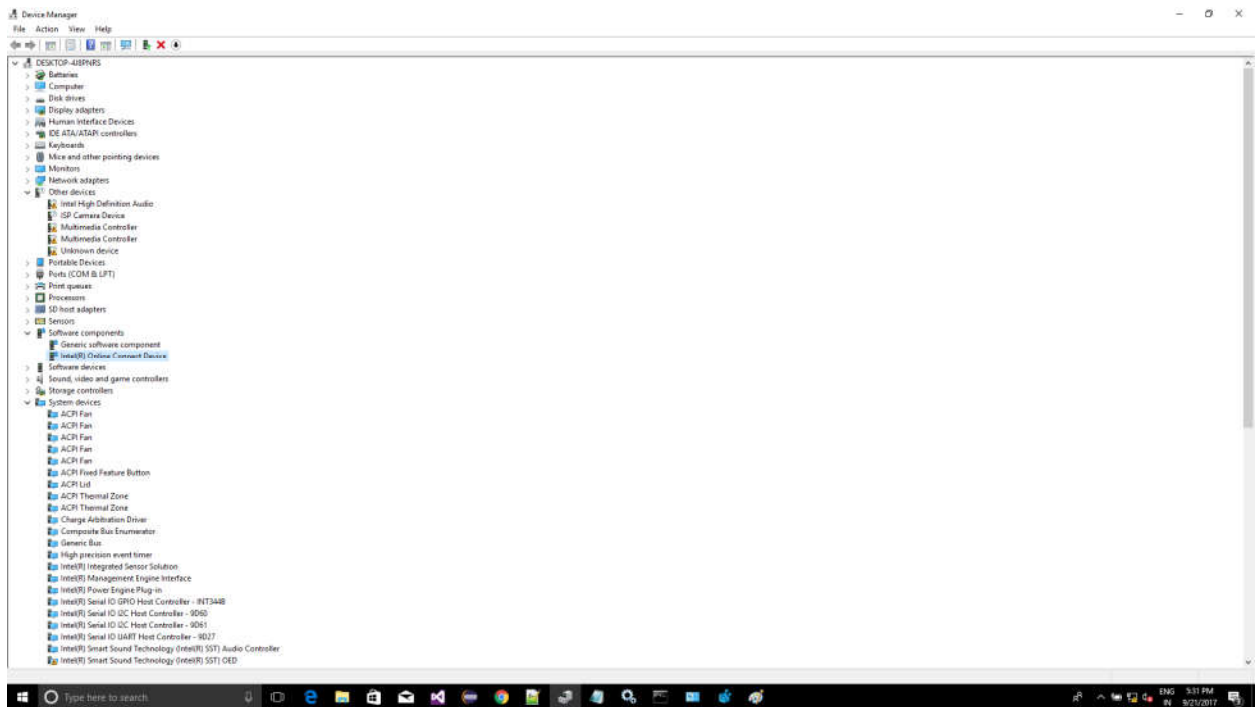


- Select Have Disk and browse to the package folder

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- The Click on Next and Install option
- Installation success window pops up



After successful installation of the INF, the SetupIOC.exe should be launched and the driver packages namely: Intel® Online Connect and Intel Online connect access should be installed at c:\ProgramFiles\Intel. The IOC services also should be started.

Also, a registry entry “SetupIOC” should be added under

Computer\HKLM\SOFTWARE\Microsoft\Windows\DeviceSetup\DeviceSoftware\SetupIOC.

Note: In case you’re trying to re-install the SetupIOC Component INF again for testing purposes, make sure the following steps are followed

- Uninstall the Software component (Intel Component Device) from device manager
- Uninstall the Intel Online Connect from Control Panel\Programs and Features
- Delete the ‘Version’ section from the registry entry
 - Computer\HKLM\SOFTWARE\Microsoft\Windows\DeviceSetup\DeviceSoftware\SetupIOC
 - Note: In case of SetupIOC software update with version increment in the component.inf, the ‘Version’ entry in registry need not be deleted as it upgrades to newer version.

4.3 Procedure to Install the HID driver Component INF

Direct Install:

- Right Click on IOCHID.inf and click install
- The INF is installed successfully

OR

Install from Device manager:

- Open Device manager
- Under Software Component section, right click on one of the nodes and select update driver
- Select browse my computer and the select “let me pick...”
- Select Have Disk and browse to the package folder
- The Click on Next and Install option.
- Installation success window pops up

Please refer to the above screenshot for reference.

5. Uninstallation steps

5.1 Uninstall SetupIOC.exe Software Component

- Open Device manager and select Software components
- Right click on Intel Component device and select Uninstall device
- Select the option: Delete the driver software for this device and click uninstall
- The SetuoIOC package should be uninstalled successfully

5.2 Uninstall HID software component

- Open Device manager and select Software components
- Right click on Intel(R) Online Connect Device and select Uninstall device
- Select the option: Delete the driver software for this device and click uninstall
- The HID driver should be uninstalled successfully

5.3 Uninstalling the Extension INF from the system

- Open CMD prompt in administrator mode
- Execute the following command
 - `pnputil -e`
- Check for the appropriate extension file in the list (refer the screenshot)
 - Eg: Check for the Driver package and provider name, Class(Should be Extensions) and Driver date and version
- Note down the Published name OEMxx.inf and use the following command to delete the INF from the system
 - `Pnputil -d oemxx.inf`

```

Select Administrator: Command Prompt
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C:\WINDOWS\system32>pnputil -e
Microsoft PnP Utility

Published name : oem10.inf
Driver package provider : Alps
Class : Human Interface Devices
Driver date and version : 10/13/2016 10.2207.101.108
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem5.inf
Driver package provider : Intel
Class : Extensions
Driver date and version : 09/21/2017 1.0.0.0
Signer name : Intel(R) Biometric and Context Agent Software

Published name : oem0.inf
Driver package provider : Intel
Class : System devices
Driver date and version : 06/28/2017 11.7.0.1032
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem18.inf
Driver package provider : Intel(R)
Class : Human Interface Devices
Driver date and version : 06/20/2016 1.1.0.317
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem11.inf
Driver package provider : SIMicroElectronics
Class : System devices
Driver date and version : 10/07/2016 2.2.3.13
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem17.inf
Driver package provider : INTEL
Class : System devices
Driver date and version : 10/03/2016 10.1.1.38
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem8.inf
Driver package provider : INTEL
Class : System devices
Driver date and version : 01/01/1970 10.1.1.38
Signer name : Microsoft Windows Hardware Compatibility Publisher

Published name : oem15.inf
Driver package provider : Intel
Class : Software components
  
```

5.4 Uninstalling Extension INF manually

If not able to uninstall the extension INF through Command prompt as mention in section 5.3, use the following steps to delete the files manually

- Follow first three steps as mentioned in section 5.3
- Navigate to Windows/INF folder, search for the oemxx.inf file you wish to delete(as noted down from above steps) and delete it manually
- Navigate to Windows/System32/DriverStore/FileRepository, search for extension.inf_xxx folder and delete it manually.
- Reboot the system.