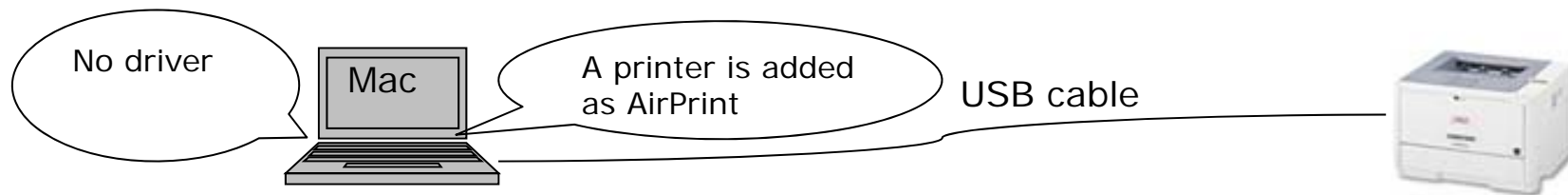# Inclusion of IPP over USB

There are some limitations in the Windows environment by including a new function.

■A new model includes the function of IPP over USB to run AirPrint 1.4.

- IPP over USB is a function to be used for running AirPrint on a USB printer.
  - For example, when connecting, by a USB cable, Mac OS X PC without a printer driver preinstalled and a printer with IPP over USB, the printer is added to Mac OS X as AirPrint.
  - Then, it can be printed on Mac OS X without a printer driver.

No driver

Mac

A printer is added as AirPrint

USB cable

■However, since a problem has occurred by USB printing in the Mac environment, the measures were implemented on the device side.

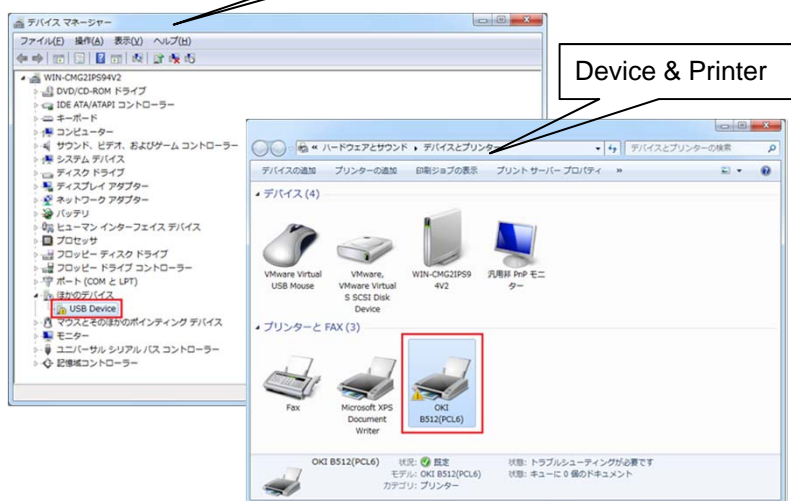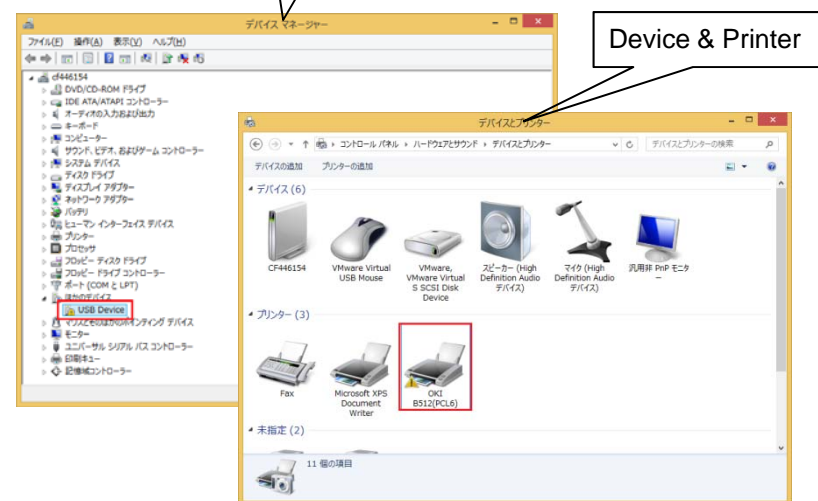# Operations in the Windows environment -1/2

■ An unspecified icon or a [!] mark was displayed in a [device and printer] folder by connecting a new model with a USB cable.

- Even though an unspecified icon is left, nothing will be happened but a [!] mark does not disappear.
- The problem does not occur by printing in the Mac environment.

Windows 7

Device Manager

Device & Printer

Windows 8.1

Device Manager

Device & Printer

- With a need of a special driver for resolving [!] mark, USB IPP driver is provided.
  ▶ The driver is only for an INF file.
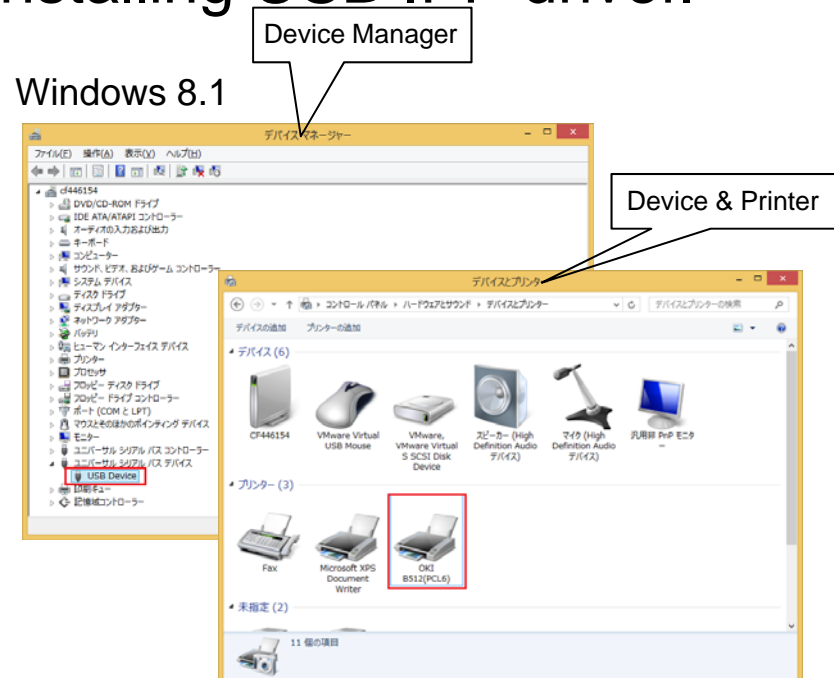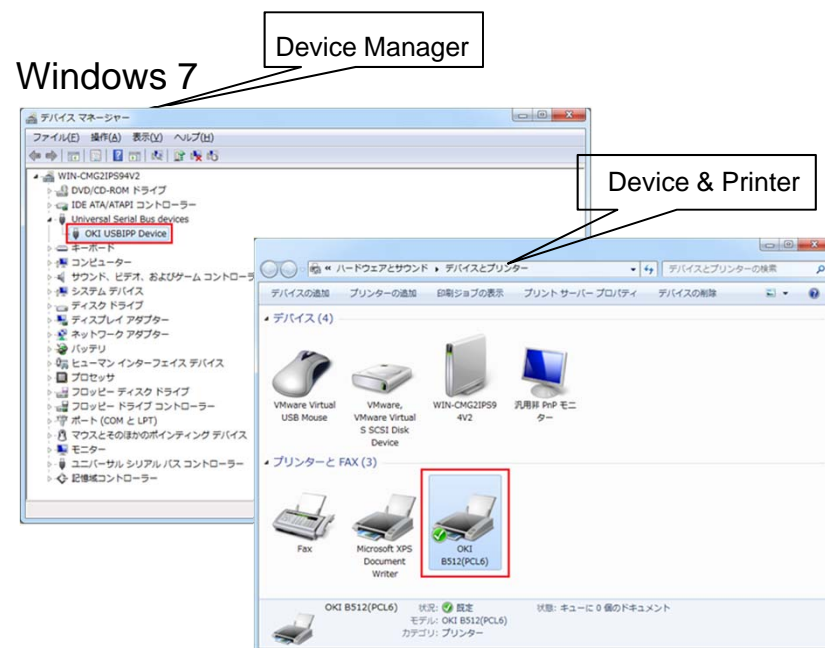
Operations in the Windows environment -2/2

■ **Target device**

● B412, B432, B512, ES4132, ES5112

■ **A [!] mark is not displayed by installing USB IPP driver.**

Windows 7

Device Manager

Device & Printer

Windows 8.1

Device Manager

Device & Printer

■ **Name (Device Manager)**

● OKI USBIPP Device (~Win7)

● USB Device (Win8~)

USB IPP Driver

■ How to get USB IPP driver
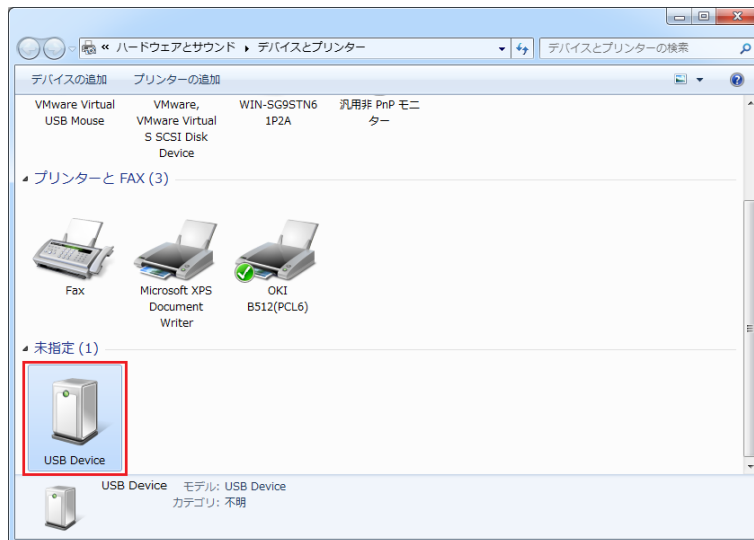
- ● **Case of using attached DVD or downloading from the website**
  - ▶ Install USB IPP driver automatically through the setup.
  - ▶ After installing a printer driver and USB IPP driver, connect a PC and the device (model) by a USB cable.

- ● **Case of using Universal driver or Inbox driver**
  - ▶ USB IPP driver is available on the website.
  - ▶ Install USB IPP driver by hand.

Limitations

- If Windows PC and a new model are connected by a USB cable without a printer driver and USB IPP driver preinstalled, the Windows recognizes it as [Unspecified].

- Even if a printer driver and USB IPP driver are installed after the above, an [Unspecified] icon may not be disappeared as shown below.

See the next page for the flow of problem occurrence.

Connection

Network → No issue
USBIPP driver is not required

USB

Plug USB Cable before installing driver

No → Install driver

Add printer from device/printer screen
Inbox driver
Universal driver

Plug USB cable

No → Install USBIPP driver

Plug USB cable

Yes

Install USBIPP driver

from Print server properties
Universal driver

Plug USB cable

No → Install USBIPP driver

Plug USB cable

Yes

Install USBIPP driver

Yes

USB device with caution mark on unknown category is shown

DVD

Install printer driver before dummy driver

Yes → Install driver

Add printer from device/printer screen
Inbox driver
Universal driver

Install USBIPP driver

No

DVD

Install dummy driver

Install driver

Add printer from device/printer screen
Inbox driver
Universal driver
DVD

No caution mark on USB device

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