

**Audience:** Existing or Perspective **BluePrint-PCB™**, **CAM350™** or **DFMStream™** Product Users

**What is it?** Detailed step by step instructions on how to obtain a MAC (a.k.a. Ethernet) address for the computer that will host a DownStream product license.

**What is an MAC (or Ethernet) address?** A Media Access Control (MAC) address is a serial number assigned to the computers network interface device that facilitates connecting to a network. It is a 12 character string displayed in pairs of two characters separated by colons or spaces. Only numbers 0 through 9 and letters A through F are used. An example MAC address:

00:08:B9:A7:F1:CA

The MAC address is set by the manufacturer of the network interface device. It is stored in its hardware, the device's read-only memory, or other firmware mechanisms. No two network devices share a MAC address.

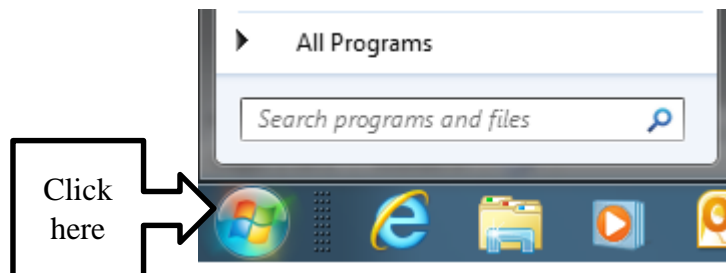
Typically, only one network device is active on your computer. It may be a hard wired or wireless network interface device within the computer. It may be attached to an external port, inside a docking station, or other location. It is not unusual to have more than one device present. For example, a laptop with both internal hard wired and wireless network interface devices.

To obtain the MAC address for a network interface device, you must execute a command to report the network interface data and then locate the preferred MAC address in the results.

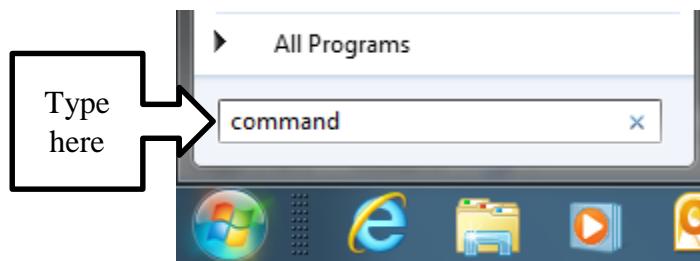
*Note: When performing these steps on a computer connected to a docking station, port repeater or other such device, we recommend you disconnect those devices before you begin. Otherwise, the MAC address obtained may originate from that device and not the host computer.*

**Details:** To obtain the MAC address on **Windows 7**:

1. Open the Windows Start menu and locate the "Search programs and files" field.



2. Enter "command" or "cmd" in the field and press enter.

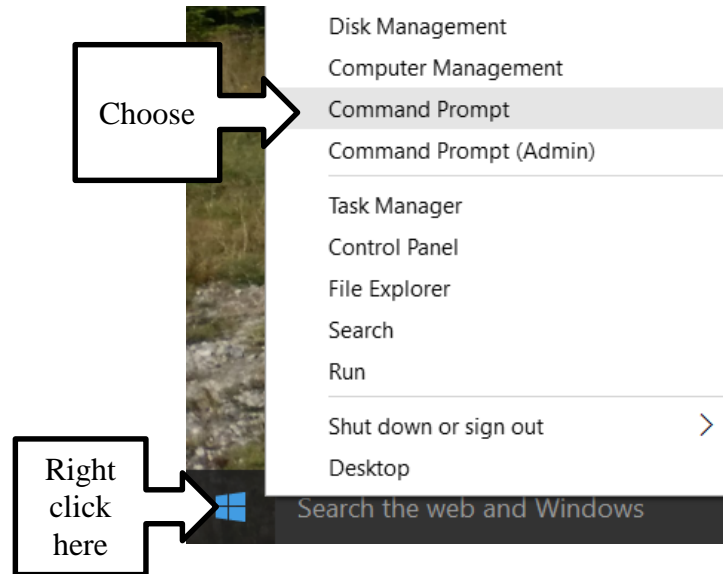


3. A command prompt (or DOS window) appears. Follow the [Generating a Network Configuration Report](#) steps later in this document.

## Technical Tip

To obtain the MAC address on **Windows 8** or **Windows 10**:

1. Locate your cursor over the Windows Start menu icon and click the right mouse button.
2. From the pop-up menu, choose Command Prompt.



3. A command prompt (or DOS) window appears. Follow the [Generating a Network Configuration Report](#) steps on the next page.

## Generating a Network Configuration Report

1. On the command line enter “**ipconfig /all**” and press enter.

```
Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\>ipconfig /all
```

**Hint:** Double click title bar to go full screen

2. In the detailed report that results, you will often note several adapters listed. Two types of network adapters are recommended for product licensing – Wireless (LAN) or Hard Wired (Ethernet). Some PCs, such as a laptop, may have both.

### Wireless LAN adapter Wi-Fi (typically found on Laptop PCs):

```
Wireless LAN adapter Wi-Fi:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : downstreamtech.com
Description . . . . . : Dell Wireless 1830 802.11ac
Physical Address. . . . . : 52-B8-03-1D-E1-E0
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

### Ethernet adapter (non-Bluetooth) Local Area Connection (without a number):

```
Ethernet adapter Local Area Connection:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : downstreamtech.com
Description . . . . . : Intel(R) 82579LM
Physical Address. . . . . : F0-DE-F1-47-E0-BD
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

3. Locate your preferred adapter type and note the entry for “**Physical Address**”. This is the device’s MAC address.
4. Provide the preferred adapter MAC Address to DownStream Technologies for license generation.

*Note: When providing a Windows PC MAC address to DownStream, characters may be provided in upper or lower case with or without dashes.*

**Tip:** When both adapter types are present, we recommend the Ethernet adapter as the license host. Wireless adapters may be disabled or turned off to preserve power on laptops. Power disruption to a wireless adapter may result in temporary deactivation of the license until power is restored.