

## MAC address from IP address

### Introduction

When using a networked machine, then every machine needs to have a unique IP address. This IP-address can be assigned from a DHCP-server. It is possible to configure a DHCP-server to provide an IP address based on the MAC-address of the network interface of the machine. The below procedure shows how to get the MAC address of the machine from the Windows command line

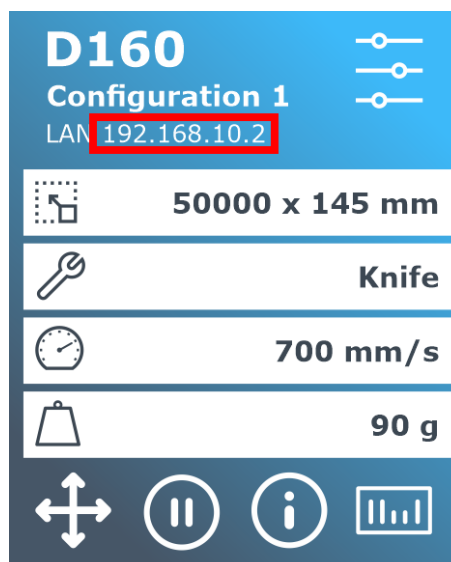
### Procedure

Use the following steps to determine the MAC address:

- Connect the machine to the network.
- Switch the machine on.
- Determine the IP address of the machine:

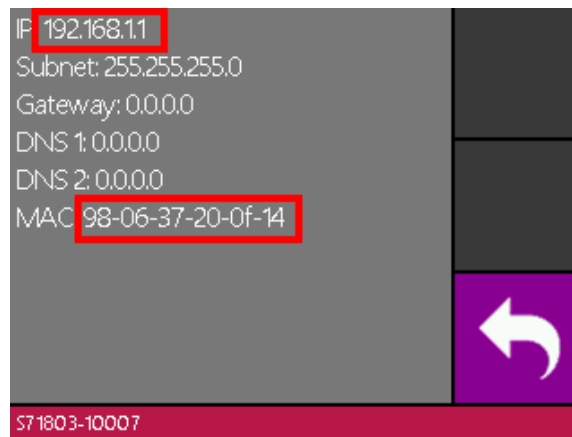
#### S One

The IP address is displayed in the front panel.



## S Class 2

Click [Settings] – [More] – [Communication] – [LAN] – [Status].



From this screen, the MAC address is also displayed.

## SummaCut

Click [Menu] – [Up Arrow] – [Enter].

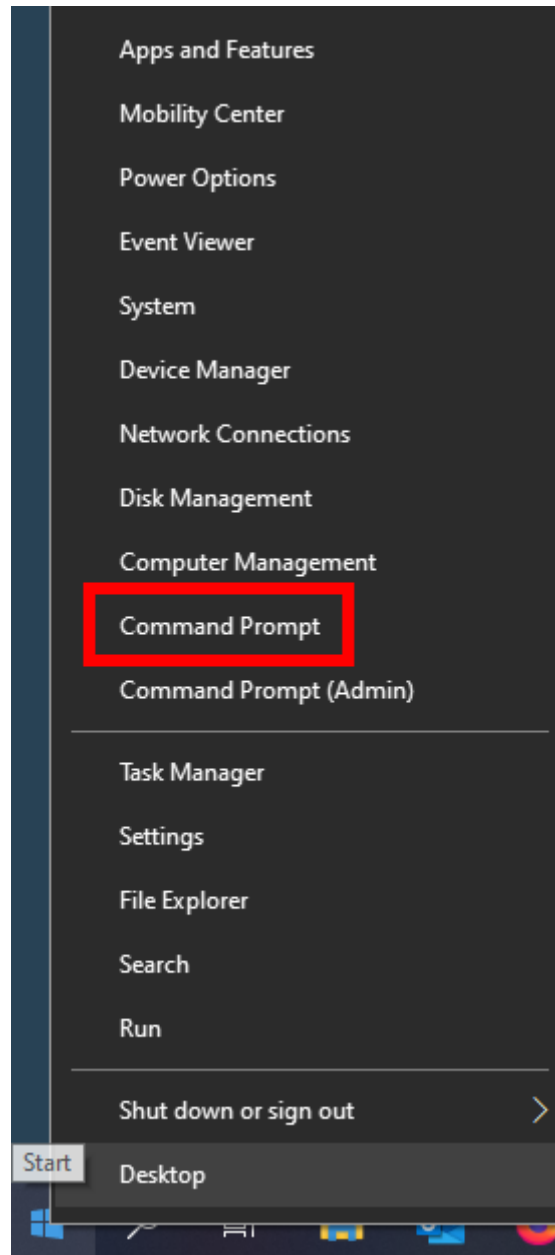
Click the [Up Arrow] or [Down Arrow] until “Configuration” is displayed.

Press [Enter]. This displays [IP Config]. Press [Enter] to confirm.

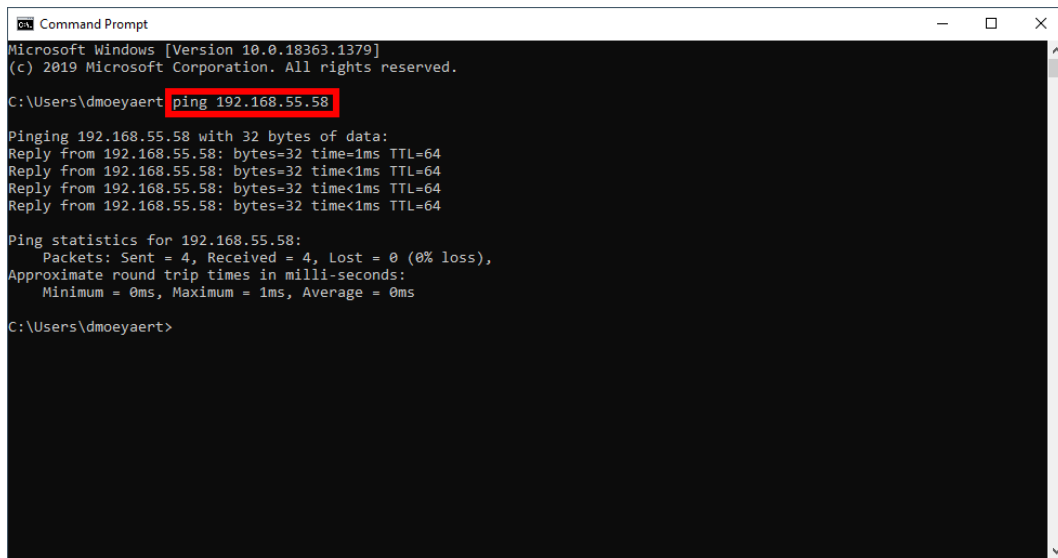
“Static” or “DHCP” should be displayed.

Press [Down Arrow]. This displays the IP address of the machine.

- Start the “Command Prompt”: right-click on the start icon, and click “Command Prompt”:



- Type “ping xxx.xxx.xxx.xxx”, where xxx.xxx.xxx.xxx is the IP address of the machine. This should result in a report displaying the time the machine needed to send a response:



```
Command Prompt
Microsoft Windows [Version 10.0.18363.1379]
(c) 2019 Microsoft Corporation. All rights reserved.

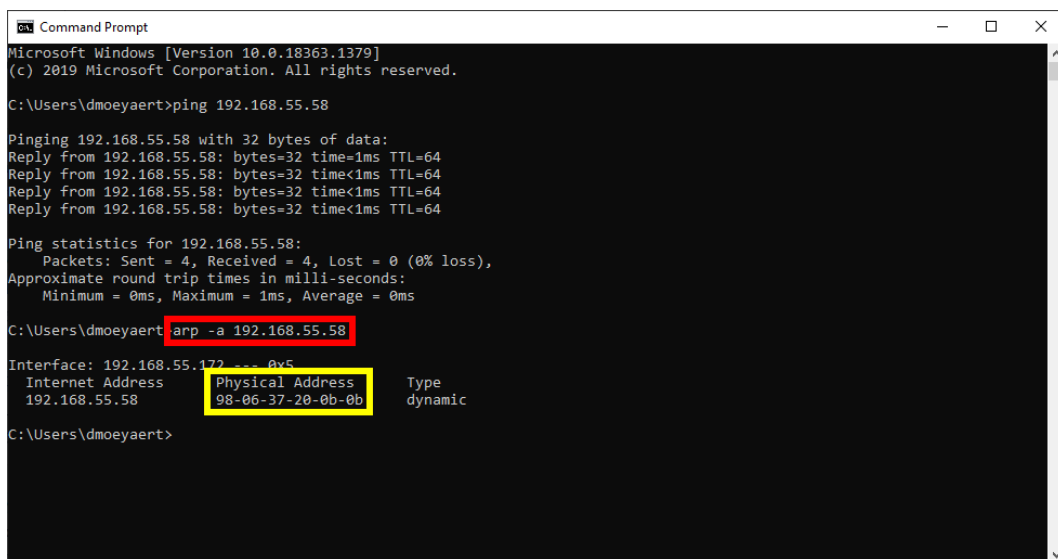
C:\Users\dmoeyaert>ping 192.168.55.58

Pinging 192.168.55.58 with 32 bytes of data:
Reply from 192.168.55.58: bytes=32 time=1ms TTL=64
Reply from 192.168.55.58: bytes=32 time<1ms TTL=64
Reply from 192.168.55.58: bytes=32 time<1ms TTL=64
Reply from 192.168.55.58: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.55.58:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\dmoeyaert>
```

- Type “arp -a xxx.xxx.xxx.xxx”, where xxx.xxx.xxx.xxx is the IP address of the machine. This results in displaying the IP address of the computer, followed by the IP and MAC address of the machine:



```
Command Prompt
Microsoft Windows [Version 10.0.18363.1379]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\dmoeyaert>ping 192.168.55.58

Pinging 192.168.55.58 with 32 bytes of data:
Reply from 192.168.55.58: bytes=32 time=1ms TTL=64
Reply from 192.168.55.58: bytes=32 time<1ms TTL=64
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Reply from 192.168.55.58: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.55.58:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\dmoeyaert>arp -a 192.168.55.58

Interface: 192.168.55.172 --- 0x5
Internet Address      Physical Address      Type
192.168.55.58         98-06-37-20-0b-0b    dynamic

C:\Users\dmoeyaert>
```