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Application Note: Obtaining an Interceptor's MAC Address

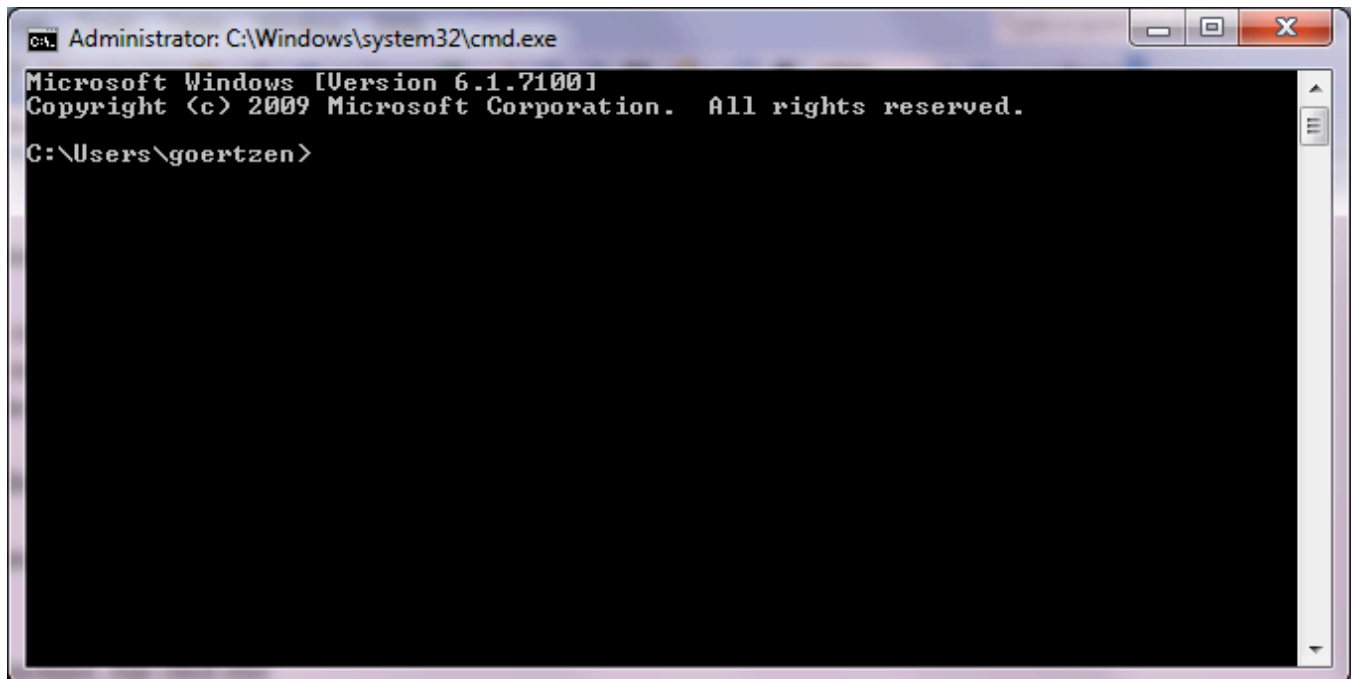
Every Ethernet interface has a permanent hardware address called a Media Access Control address (MAC address). MACs are used for low-level Ethernet communications and users do not normally need to know about them, however some applications, such as firewalls, make use of MAC addresses. This application note will show how to acquire the MAC address of an Interceptor.

Step 1: Setup the Interceptor on the same network as your PC (section 4 of the Interceptor User Manual, "System Startup & Network Configuration").

Step 2: On your PC, run "`cmd.exe`".

On Windows XP, click Start->Run and type in "`cmd.exe`".

On Vista/Windows 7, click Start and type in "`cmd.exe`".



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7100]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

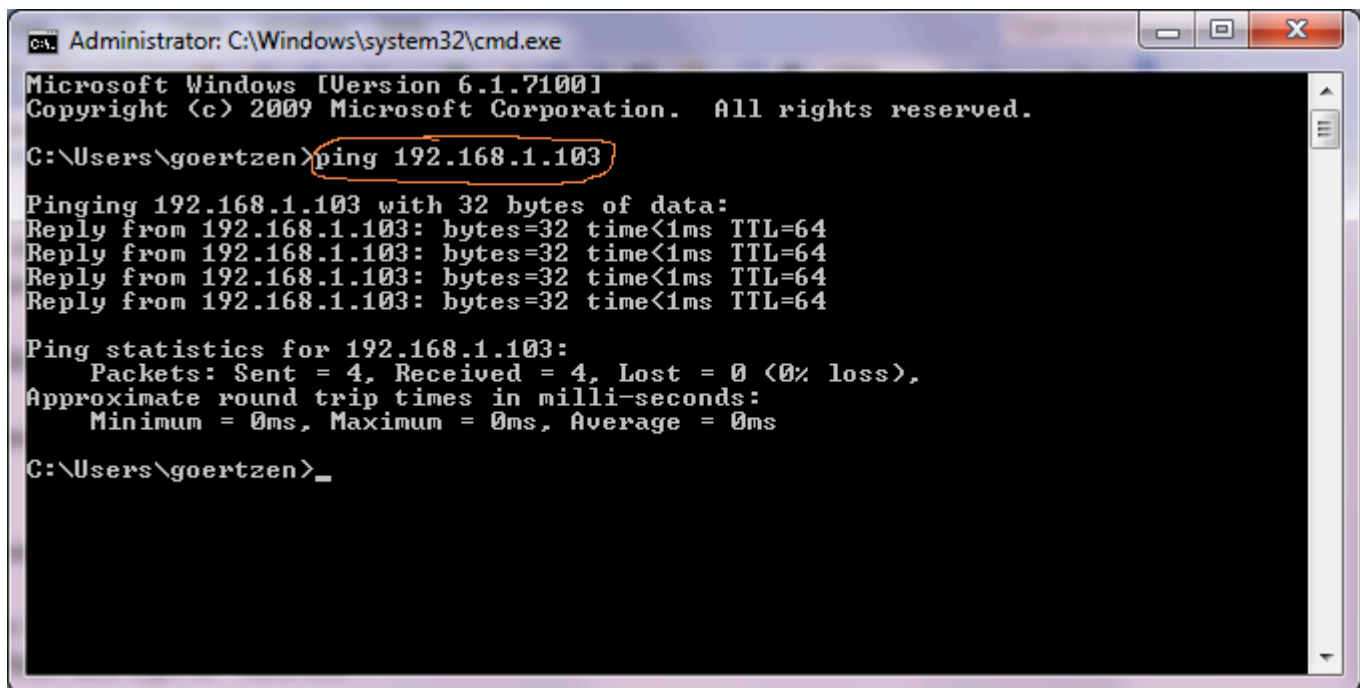
C:\Users\goertzen>
```

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Step 3: Ping the Interceptor with the command...

```
C:\> ping <address of interceptor>
```

This will cause your computer to acquire the Interceptor's MAC address. In the example below, the address of the interceptor is **192.168.1.103**.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7100]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\goertzen>ping 192.168.1.103

Pinging 192.168.1.103 with 32 bytes of data:
Reply from 192.168.1.103: bytes=32 time<1ms TTL=64
Reply from 192.168.1.103: bytes=32 time<1ms TTL=64
Reply from 192.168.1.103: bytes=32 time<1ms TTL=64
Reply from 192.168.1.103: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.103:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

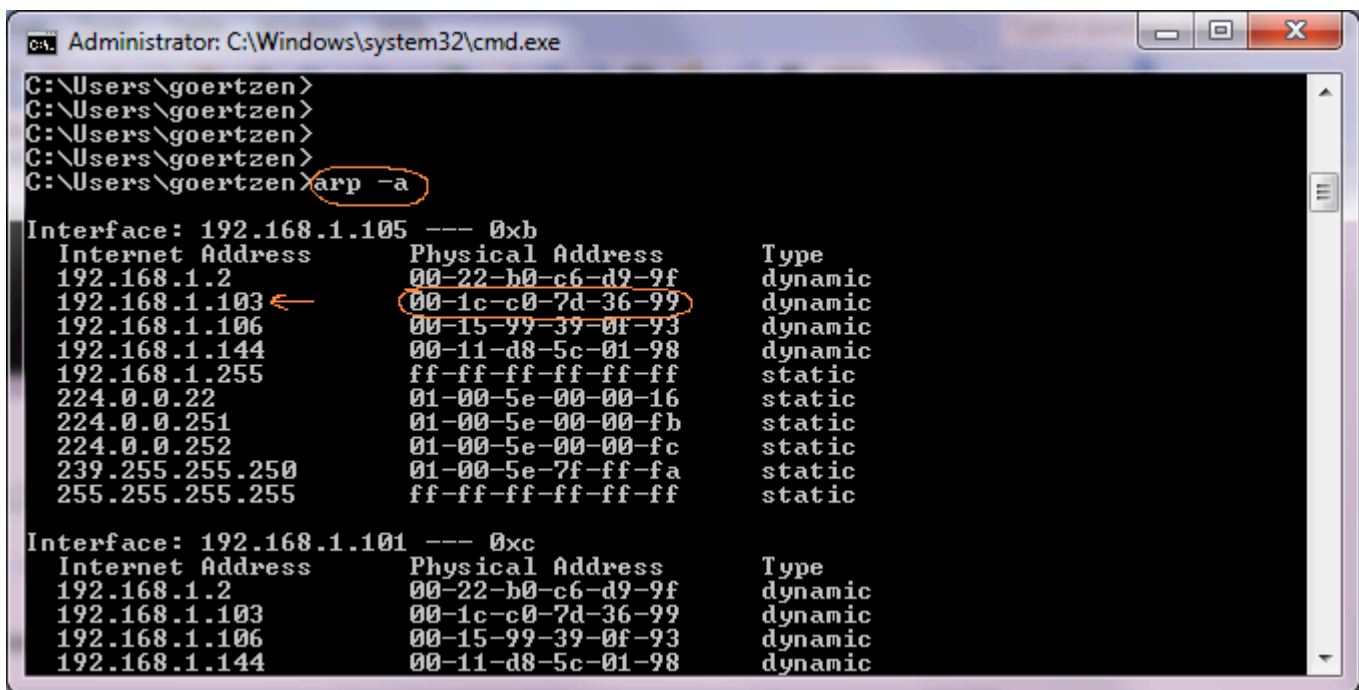
C:\Users\goertzen>_
```

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Step 4: Display the MAC addresses with the command...

```
C:\> arp -a
```

This prints the MAC address, or physical address, for every IP address that your computer knows about. Find the IP address of your Interceptor and the matching MAC address. You may need to scroll the window back if the list is long, as in the case below...



```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\goertzen>
C:\Users\goertzen>
C:\Users\goertzen>
C:\Users\goertzen>
C:\Users\goertzen>arp -a
Interface: 192.168.1.105 --- 0xb
  Internet Address      Physical Address      Type
  192.168.1.2           00-22-b0-c6-d9-9f    dynamic
  192.168.1.103 ←      00-1c-c0-7d-36-99    dynamic
  192.168.1.106         00-15-99-39-0f-93    dynamic
  192.168.1.144         00-11-d8-5c-01-98    dynamic
  192.168.1.255         ff-ff-ff-ff-ff-ff    static
  224.0.0.22            01-00-5e-00-00-16    static
  224.0.0.251           01-00-5e-00-00-fb    static
  224.0.0.252           01-00-5e-00-00-fc    static
  239.255.255.250       01-00-5e-7f-ff-fa    static
  255.255.255.255       ff-ff-ff-ff-ff-ff    static

Interface: 192.168.1.101 --- 0xc
  Internet Address      Physical Address      Type
  192.168.1.2           00-22-b0-c6-d9-9f    dynamic
  192.168.1.103         00-1c-c0-7d-36-99    dynamic
  192.168.1.106         00-15-99-39-0f-93    dynamic
  192.168.1.144         00-11-d8-5c-01-98    dynamic
```