

Externer Netzwerk Adapter wird nicht erkannt

Beitrag von „CUEBALL“ vom 8. Oktober 2019, 12:21

Hallo, ich betreibe einen Hackintosh-Laptop mit einem ThinkPad Hybrid USB-C Dock (<https://www.lenovo.com/de/de/a...ck-%C2%A0-EU/p/40AF0135EU>). Darin befindet sich ein Thinkpad Gigabit LAN-Adapter, der unter Mojave ohne zusätzliche Treiber problemlos erkannt wurde.

Nach der Aktualisierung auf Catalina wird das USB-Device zwar noch erkannt, aber es wird kein Netzwerkinterface angelegt. Wenn ich hingegen das Catalina-Installationsmedium boote und dort das Netzwerkdienstprogramm öffne wird die Netzwerkkarte problemlos erkannt und bekommt eine IP-Adresse zugewiesen. Das Problem existiert nur, wenn ich regulär, nach Abschluss der Catalina Installation das System boote. Ab dann existiert das Netzwerkinterface nicht mehr.

Ich habe sowohl über das Catalina-Installationsmedium als auch nach Abschluss der Installation per **ioreg -irc IOUSBHostDevice** geloggt. Anbei die beiden relevanten Auszüge.

Nach einem Booten in das Catalina Installationsprogramm:

Code

```
1. |           +-o           AppleUSB30HubPort@14a30000           <class
   | IORegistryEntry:IOService:AppleUSBHostPort:AppleUSBHubPort:AppleUSB30HubPort, id
   | 0x100000314, registered, matched, active, busy 0 (4830 ms), retain 16>
2. |           |           +-o           ThinkPad           Lan@14a30000           <class
   | IORegistryEntry:IOService:IOUSBHub:IOUSBDevice, id 0x100000367, registered,
   | matched, active, busy 0 (4830 ms), retain 61>
3. | | | {
4. | | | "kUSBSerialNumberString" = "30100002F"
5. | | | "bDeviceClass" = 0
6. | | | "bDeviceSubClass" = 0
7. | | | "iSerialNumber" = 6
8. | | | "Built-In" = No
9. | | | "IOServiceDEXTitlements" = (("com.apple.developer.driverkit.transport.usb"))
```

```

10. | | | "iProduct" = 2
11. | | | "USB Serial Number" = "30100002F"
12. | | | "USB Vendor Name" = "Lenovo"
13. | | | "USBSpeed" = 4
14. | | | "IOPowerManagement" =
    {"PowerOverrideOn"=Yes,"CapabilityFlags"=32768,"MaxPowerState"=2,"DevicePowerState"=2,"Drive
15. | | | "bNumConfigurations" = 2
16. | | | "kUSBProductString" = "ThinkPad Lan"
17. | | | "IOServiceLegacyMatchingRegistryID" = 4294968169
18. | | | "kUSBVendorString" = "Lenovo"
19. | | | "USB Product Name" = "ThinkPad Lan"
20. | | | "iManufacturer" = 1
21. | | | "idVendor" = 6127
22. | | | "Device Speed" = 3
23. | | | "kUSBCurrentConfiguration" = 2
24. | | | "idProduct" = 41817
25. | | | "bcdDevice" = 12547
26. | | | "sessionID" = 6996169265
27. | | | "kUSBContainerID" = "99c55021-8fec-418c-971f-7591edda129e"
28. | | | "USB Address" = 7
29. | | | "non-removable" = "yes"
30. | | | "IOCFPlugInTypes" = {"9dc7b780-9ec0-11d4-a54f-
    000a27052861"="IOUSBHostFamily.kext/Contents/PlugIns/IOUSBLib.bundle"}
31. | | | "IOClassNameOverride" = "IOUSBDevice"
32. | | | "kUSBPreferredConfiguration" = 2
33. | | | "USBPortType" = 1
34. | | | "bDeviceProtocol" = 0
35. | | | "locationID" = 346226688
36. | | | "bcdUSB" = 768
37. | | | "kUSBAddress" = 7
38. | | | "IOGeneralInterest" = "IOCommand is not serializable"
39. | | | "bMaxPacketSize0" = 9
40. | | | }
41. | | |
42. | | | +--o AppleUSBHostLegacyClient <class
    IORegistryEntry:IOService:AppleUSBHostLegacyClient, id 0x10000036a, !registered,
    !matched, active, busy 0, retain 8>
43. | | | +--o AppleUSBCDCCompositeDevice <class
    IORegistryEntry:IOService:AppleUSBHostCompositeDevice:AppleUSBCDCCompositeDevice,
    id 0x10000036d, !registered, !matched, active, busy 0, retain 4>

```

```

44. |      |      +-o      CDC      Communications      Control@0      <class
    IORegistryEntry:IOService:IOUSBNUB:IOUSBInterface, id 0x10000036f, registered,
    matched, active, busy 0 (1329 ms), retain 11>
45. |      |      |      +-o      AppleUSBECMControl      <class
    IORegistryEntry:IOService:AppleUSBBCDCControl:AppleUSBECMControl, id 0x100000645,
    registered, matched, active, busy 0 (0 ms), retain 7>
46. |      |      +-o      IOUSBHostInterface@1      <class
    IORegistryEntry:IOService:IOUSBNUB:IOUSBInterface, id 0x100000370, registered,
    matched, active, busy 0 (4827 ms), retain 12>
47. |      |      +-o      AppleUSBECMData      <class
    IORegistryEntry:IOService:IONetworkController:IOEthernetController:AppleUSBECMData,
    id 0x100000680, registered, matched, active, busy 0 (0 ms), retain 42>
48. | | +-o en2 <class IORegistryEntry:IOService:IONetworkInterface:IOEthernetInterface, id
    0x10000069b, registered, matched, active, busy 0 (0 ms), retain 11>
49. | | +-o IONetworkStack <class IORegistryEntry:IOService:IONetworkStack, id
    0x1000002b6, registered, matched, active, busy 0 (0 ms), retain 12>
50. |      |      +-o      IONetworkStackUserClient      <class
    IORegistryEntry:IOService:IOUserClient:IONetworkStackUserClient, id 0x1000005f0,
    !registered, !matched, active, busy 0, retain 5>

```

Alles anzeigen

Nach einem regulären Catalina-Boot:

Code

```

1. |      +-o      AppleUSB30HubPort@14a30000      <class
    IORegistryEntry:IOService:AppleUSBHostPort:AppleUSBHubPort:AppleUSB30HubPort, id
    0x1000009f1, registered, matched, active, busy 0 (13872 ms), retain 16>
2. |      |      +-o      ThinkPad      Lan@14a30000      <class
    IORegistryEntry:IOService:IOUSBNUB:IOUSBDevice, id 0x100000a4d, registered,
    matched, active, busy 0 (13871 ms), retain 25>
3. | | | {
4. | | | "kUSBSerialNumberString" = "30100002F"
5. | | | "bDeviceClass" = 0
6. | | | "bDeviceSubClass" = 0
7. | | | "iSerialNumber" = 6
8. | | | "Built-In" = No
9. | | | "IOServiceDEXTentitlements" = (("com.apple.developer.driverkit.transport.usb"))
10. | | | "iProduct" = 2
11. | | | "USB Serial Number" = "30100002F"

```

```

12. ||| "USB Vendor Name" = "Lenovo"
13. ||| "USBSpeed" = 4
14. | | | | "IOPowerManagement" =
    {"PowerOverrideOn"=Yes,"CapabilityFlags"=32768,"MaxPowerState"=2,"DevicePowerState"=2,"Driver
15. ||| "bNumConfigurations" = 2
16. ||| "kUSBProductString" = "ThinkPad Lan"
17. ||| "IOServiceLegacyMatchingRegistryID" = 4294969935
18. ||| "kUSBVendorString" = "Lenovo"
19. ||| "USB Product Name" = "ThinkPad Lan"
20. ||| "iManufacturer" = 1
21. ||| "idVendor" = 6127
22. ||| "Device Speed" = 3
23. ||| "kUSBCurrentConfiguration" = 2
24. ||| "idProduct" = 41817
25. ||| "bcdDevice" = 12547
26. ||| "sessionID" = 340999484256
27. ||| "kUSBContainerID" = "99c55021-8fec-418c-971f-7591edda129e"
28. ||| "USB Address" = 26
29. ||| "non-removable" = "yes"
30. | | | | "IOCFPlugInTypes" = {"9dc7b780-9ec0-11d4-a54f-
    000a27052861"="IOUSBHostFamily.kext/Contents/PlugIns/IOUTSBLib.bundle"}
31. ||| "IOClassNameOverride" = "IOUSBDevice"
32. ||| "kUSBPreferredConfiguration" = 2
33. ||| "USBPortType" = 1
34. ||| "bDeviceProtocol" = 0
35. ||| "locationID" = 346226688
36. ||| "bcdUSB" = 768
37. ||| "kUSBAddress" = 26
38. ||| "IOGeneralInterest" = "IOCommand is not serializable"
39. ||| "bMaxPacketSize0" = 9
40. ||| }
41. |||
42. | | | | + - o AppleUSBHostLegacyClient <class
    IORegistryEntry:IOService:AppleUSBHostLegacyClient, id 0x100000a50, !registered,
    !matched, active, busy 0, retain 8>
43. | | | | + - o AppleUSBCDCCompositeDevice <class
    IORegistryEntry:IOService:AppleUSBHostCompositeDevice:AppleUSBCDCCompositeDevice,
    id 0x100000a55, !registered, !matched, active, busy 0, retain 4>
44. | | | | + - o CDC Communications Control@0 <class
    IORegistryEntry:IOService:IOUSBNUB:IOUSBInterface, id 0x100000a58, registered,
    matched, active, busy 0 (13864 ms), retain 11>

```

```

45. |          |          +-o          AppleUSBECMControl          <class
    IORegistryEntry:IOService:AppleUSBBCDCControl:AppleUSBECMControl, id 0x100000a5f,
    registered, matched, active, busy 0 (0 ms), retain 6>
46. |          |          +-o          IOUSBHostInterface@1          <class
    IORegistryEntry:IOService:IOUSBNUB:IOUSBInterface, id 0x100000a59, registered,
    matched, active, busy 0 (2187 ms), retain 7>

```

Alles anzeigen

Offensichtlich wird bei einem normalen Start von Catalina die Treiberklasse IORegistryEntry:IOService:IONetworkController:IOEthernetController:AppleUSBECMData nicht geladen.

Code

```

1. |          |          +-o          AppleUSBECMData          <class
   IORegistryEntry:IOService:IONetworkController:IOEthernetController:AppleUSBECMData,
   id 0x100000680, registered, matched, active, busy 0 (0 ms), retain 42>
2. | | +-o en2 <class IORegistryEntry:IOService:IONetworkInterface:IOEthernetInterface, id
   0x10000069b, registered, matched, active, busy 0 (0 ms), retain 11>
3. | | +-o IONetworkStack <class IORegistryEntry:IOService:IONetworkStack, id
   0x1000002b6, registered, matched, active, busy 0 (0 ms), retain 12>
4. |          |          +-o          IONetworkStackUserClient          <class
   IORegistryEntry:IOService:IOUserClient:IONetworkStackUserClient, id 0x1000005f0,
   !registered, !matched, active, busy 0, retain 5>

```

Woran könnte das liegen? Vielleicht hat jemand hier eine Idee. Für entsprechende Hinweise wäre ich sehr dankbar.

Beitrag von „CUEBALL“ vom 15. Oktober 2019, 12:19

Sieht so aus, es habe es sich um ein Problem in den Apple Ethernet Control Model Treibern gehandelt. Nach einer Installation von Catalina Beta 10.15.1 funktioniert der Netzwerkadapter tadellos.