

# ネットワーク通信中のプロセスを取得する

仕事で要り様になったので。

.NET Framework のクラスだけだと その通信を行っているプロセスを特定できないので Windows の iphlapi.dll にあるエントリを呼び出す必要があります。

この部分は [C# で iphlapi.dll の GetExtendedTcpTable を使うためのラッパー](#) を利用しました。

## ダウンロード



[tcplistenerlist.zip](#) TcpListenerList.exe 実行には wrapGetExtendedTable.dll と .NET Framework 4.0 が必要です。

## サンプル

```
C:\Work>TcpListenerList.exe > list.txt
C:\Work>
```

C:\Work\list.txt はこんな感じに netstat -nb コマンド的な出力になります。  
STATE が MIB\_TCP\_STATE\_LISTEN のものがリスナーです。

STATE	LocalAddress	RemoteAddress	PID
Command & CommandLine			
MIB_TCP_STATE_LISTEN	0.0.0.0:	135 0.0.0.0:	0 860
svchost.exe	C:\Windows\system32\svchost.exe	C:\Windows\system32\svchost.exe	
-k RPCSS			
MIB_TCP_STATE_LISTEN	0.0.0.0:	445 0.0.0.0:	0 4
System			
MIB_TCP_STATE_LISTEN	0.0.0.0:	523 0.0.0.0:	0 1924
db2dasrrm.exe	F:\Program Files\IBM\SQLLIB\bin\db2dasrrm.exe	"F:\Program Files\IBM\SQLLIB\bin\db2dasrrm.exe"	
MIB_TCP_STATE_LISTEN	0.0.0.0:	554 0.0.0.0:	0 360
wmpnetwk.exe	C:\Program Files\Windows Media Player\wmpnetwk.exe	"C:\Program Files\Windows Media Player\wmpnetwk.exe"	
MIB_TCP_STATE_LISTEN	0.0.0.0:	1110 0.0.0.0:	0 1800
avp.exe	C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security 14.0.0\avp.exe	"C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security 14.0.0\avp.exe" -r	
MIB_TCP_STATE_LISTEN	0.0.0.0:	1111 0.0.0.0:	0 1800
avp.exe	C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security 14.0.0\avp.exe	"C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security 14.0.0\avp.exe" -r	
MIB_TCP_STATE_LISTEN	0.0.0.0:	2869 0.0.0.0:	0 4

```

System
MIB_TCP_STATE_LISTEN      0.0.0.0: 3389      0.0.0.0: 0 1284
svchost.exe C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe
-k NetworkService
MIB_TCP_STATE_LISTEN      0.0.0.0: 5357      0.0.0.0: 0 4
System
MIB_TCP_STATE_LISTEN      0.0.0.0:10243     0.0.0.0: 0 4
System
MIB_TCP_STATE_LISTEN      0.0.0.0:49152     0.0.0.0: 0 556
wininit.exe C:\Windows\system32\wininit.exe wininit.exe
MIB_TCP_STATE_LISTEN      0.0.0.0:49153     0.0.0.0: 0 996
svchost.exe C:\Windows\System32\svchost.exe C:\Windows\System32\svchost.exe
-k LocalServiceNetworkRestricted
MIB_TCP_STATE_LISTEN      0.0.0.0:49154     0.0.0.0: 0 636
lsass.exe C:\Windows\system32\lsass.exe C:\Windows\system32\lsass.exe
MIB_TCP_STATE_LISTEN      0.0.0.0:49155     0.0.0.0: 0 408
svchost.exe C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe
-k netsvcs
MIB_TCP_STATE_LISTEN      0.0.0.0:49159     0.0.0.0: 0 620
services.exe C:\Windows\system32\services.exe
C:\Windows\system32\services.exe
MIB_TCP_STATE_LISTEN      0.0.0.0:50000     0.0.0.0: 0 2560
db2syscs.exe F:\PROGRA~1\IBM\SQLLIB\bin\db2syscs.exe
F:\PROGRA~1\IBM\SQLLIB\bin\db2syscs.exe
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:52926 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:52982 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:53087 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:53157 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:55858 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB       127.0.0.1: 1110    127.0.0.1:61717 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_TIME_WAIT   127.0.0.1: 1110    127.0.0.1:62010 0
System Idle Process
MIB_TCP_STATE_TIME_WAIT   127.0.0.1: 1110    127.0.0.1:62021 0

```

```

System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62023      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62038      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62040      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62042      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62048      0
System Idle Process
MIB_TCP_STATE_ESTAB          127.0.0.1: 1110      127.0.0.1:62050      1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 1110      127.0.0.1:62066      0
System Idle Process
MIB_TCP_STATE_FIN_WAIT2      127.0.0.1: 1110      127.0.0.1:62078      1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          127.0.0.1: 1110      127.0.0.1:62090      1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          127.0.0.1: 1110      127.0.0.1:64570      1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          127.0.0.1: 1110      127.0.0.1:64572      1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          127.0.0.1: 2869      127.0.0.1:62056      4
System
MIB_TCP_STATE_LISTEN         127.0.0.1: 5354      0.0.0.0: 0      1832
mDNSResponder.exe C:\Program Files (x86)\Bonjour\mDNSResponder.exe
"C:\Program Files (x86)\Bonjour\mDNSResponder.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1: 5354      127.0.0.1:49156      1832
mDNSResponder.exe C:\Program Files (x86)\Bonjour\mDNSResponder.exe
"C:\Program Files (x86)\Bonjour\mDNSResponder.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1: 5354      127.0.0.1:49157      1832
mDNSResponder.exe C:\Program Files (x86)\Bonjour\mDNSResponder.exe
"C:\Program Files (x86)\Bonjour\mDNSResponder.exe"
MIB_TCP_STATE_TIME_WAIT      127.0.0.1: 5357      127.0.0.1:62064      0
System Idle Process
MIB_TCP_STATE_LISTEN         127.0.0.1:27015      0.0.0.0: 0      1772
AppleMobileDeviceService.exe C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe "C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe"

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```
MIB_TCP_STATE_ESTAB      127.0.0.1:27015      127.0.0.1:49391      1772
AppleMobileDeviceService.exe C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe "C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe"
MIB_TCP_STATE_ESTAB      127.0.0.1:49156      127.0.0.1: 5354      1772
AppleMobileDeviceService.exe C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe "C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe"
MIB_TCP_STATE_ESTAB      127.0.0.1:49157      127.0.0.1: 5354      1772
AppleMobileDeviceService.exe C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe "C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe"
MIB_TCP_STATE_LISTEN     127.0.0.1:49158      0.0.0.0: 0      2000
dirmngr.exe C:\Program Files (x86)\GNU\GnuPG\dirmngr.exe "C:\Program Files
(x86)\GNU\GnuPG\dirmngr.exe" --service
MIB_TCP_STATE_ESTAB      127.0.0.1:49391      127.0.0.1:27015      1440
iTunesHelper.exe D:\Program Files (x86)\iTunes\iTunesHelper.exe "D:\Program
Files (x86)\iTunes\iTunesHelper.exe"
MIB_TCP_STATE_ESTAB      127.0.0.1:49411      127.0.0.1:49412      1728
SugarSyncManager.exe C:\Program Files (x86)\SugarSync\SugarSyncManager.exe
"C:\Program Files (x86)\SugarSync\SugarSyncManager.exe" -startInTray -
usedelay=true
MIB_TCP_STATE_ESTAB      127.0.0.1:49412      127.0.0.1:49411      1728
SugarSyncManager.exe C:\Program Files (x86)\SugarSync\SugarSyncManager.exe
"C:\Program Files (x86)\SugarSync\SugarSyncManager.exe" -startInTray -
usedelay=true
MIB_TCP_STATE_ESTAB      127.0.0.1:49425      127.0.0.1:49426      1728
SugarSyncManager.exe C:\Program Files (x86)\SugarSync\SugarSyncManager.exe
"C:\Program Files (x86)\SugarSync\SugarSyncManager.exe" -startInTray -
usedelay=true
MIB_TCP_STATE_ESTAB      127.0.0.1:49426      127.0.0.1:49425      1728
SugarSyncManager.exe C:\Program Files (x86)\SugarSync\SugarSyncManager.exe
"C:\Program Files (x86)\SugarSync\SugarSyncManager.exe" -startInTray -
usedelay=true
MIB_TCP_STATE_ESTAB      127.0.0.1:49459      127.0.0.1:49460      5244
firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe "C:\Program
Files (x86)\Mozilla Firefox\firefox.exe"
MIB_TCP_STATE_ESTAB      127.0.0.1:49460      127.0.0.1:49459      5244
firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe "C:\Program
Files (x86)\Mozilla Firefox\firefox.exe"
MIB_TCP_STATE_LISTEN     127.0.0.1:52807      0.0.0.0: 0      7888
gpg-agent.exe C:\Program Files (x86)\GNU\GnuPG\gpg-agent.exe "C:\Program
Files (x86)\GNU\GnuPG\gpg-agent.exe" --daemon --use-standard-socket
MIB_TCP_STATE_ESTAB      127.0.0.1:52926      127.0.0.1: 1110      1728
SugarSyncManager.exe C:\Program Files (x86)\SugarSync\SugarSyncManager.exe
"C:\Program Files (x86)\SugarSync\SugarSyncManager.exe" -startInTray -
usedelay=true
MIB_TCP_STATE_ESTAB      127.0.0.1:52982      127.0.0.1: 1110      3304
```

```
SkyDrive.exe
C:\Users\tomason510\AppData\Local\Microsoft\SkyDrive\SkyDrive.exe
"C:\Users\tomason510\AppData\Local\Microsoft\SkyDrive\SkyDrive.exe"
/background
MIB_TCP_STATE_ESTAB          127.0.0.1:53087          127.0.0.1: 1110  10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:53157          127.0.0.1: 1110  5244
firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe "C:\Program
Files (x86)\Mozilla Firefox\firefox.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:53620          127.0.0.1:53621  16192
Yoono Desktop.exe C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe
"C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:53621          127.0.0.1:53620  16192
Yoono Desktop.exe C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe
"C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:53622          127.0.0.1:53623  16192
Yoono Desktop.exe C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe
"C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:53623          127.0.0.1:53622  16192
Yoono Desktop.exe C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe
"C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:55858          127.0.0.1: 1110  10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:61717          127.0.0.1: 1110  10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62025          127.0.0.1: 1110    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62027          127.0.0.1: 1110    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62029          127.0.0.1: 1110    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62031          127.0.0.1: 1110    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62033          127.0.0.1: 1110    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62047          127.0.0.1: 1111    0
System Idle Process
MIB_TCP_STATE_ESTAB          127.0.0.1:62050          127.0.0.1: 1110  5244
firefox.exe C:\Program Files (x86)\Mozilla Firefox\firefox.exe "C:\Program
Files (x86)\Mozilla Firefox\firefox.exe"
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62052          127.0.0.1: 1111    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62054          127.0.0.1: 1111    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62055          127.0.0.1: 1111    0
System Idle Process
MIB_TCP_STATE_ESTAB          127.0.0.1:62056          127.0.0.1: 2869  1108
svchost.exe C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe
```

```

-k LocalService
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62068      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62072      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62074      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62077      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_CLOSE_WAIT     127.0.0.1:62078      127.0.0.1: 1110 16192
Yoono Desktop.exe C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe
"C:\Program Files (x86)\Yoono Desktop\Yoono Desktop.exe"
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62083      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62085      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62089      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_ESTAB          127.0.0.1:62090      127.0.0.1: 1110 321168
MpCmdRun.exe c:\program files\windows defender\MpCmdRun.exe "c:\program
files\windows defender\MpCmdRun.exe" SpyNetService -RestrictPrivileges -
AccessKey xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx -Reinvoke
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62092      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      127.0.0.1:62093      127.0.0.1: 1111      0
System Idle Process
MIB_TCP_STATE_ESTAB          127.0.0.1:64561      127.0.0.1:64562 10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:64562      127.0.0.1:64561 10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:64570      127.0.0.1: 1110 10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_ESTAB          127.0.0.1:64572      127.0.0.1: 1110 10428
thunderbird.exe C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe
"C:\Program Files (x86)\Mozilla Thunderbird\thunderbird.exe"
MIB_TCP_STATE_LISTEN         192.168.1.200: 139      0.0.0.0: 0 4
System
MIB_TCP_STATE_TIME_WAIT      192.168.1.200: 2869      192.168.1.1:52483 0
System Idle Process
MIB_TCP_STATE_SYN_RCVD       192.168.1.200: 2869      192.168.1.254: 1535 4
System
MIB_TCP_STATE_ESTAB          192.168.1.200:52672      192.168.1.20: 22 15448
putty.exe C:\Program Files (x86)\PuTTY\putty.exe "C:\Program Files
(x86)\PuTTY\putty.exe"
MIB_TCP_STATE_ESTAB          192.168.1.200:52929      74.201.86.29: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r

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MIB_TCP_STATE_ESTAB      192.168.1.200:52983  157.56.100.143:  443  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB      192.168.1.200:53088  74.125.196.16:   993  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB      192.168.1.200:53158  199.59.149.201:  443  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB      192.168.1.200:53791  119.110.92.177:  1935  9580
FlashPlayerPlugin_12_0_0_77.exe
C:\Windows\SysWOW64\Macromed\Flash\FlashPlayerPlugin_12_0_0_77.exe
"C:\Windows\SysWOW64\Macromed\Flash\FlashPlayerPlugin_12_0_0_77.exe" --
channel=xxxxx.xxxxxxxx.xxxxxxxx --proxy-stub-
channel=Flash11984.56977F48.30734 --plugin-
path="C:\Windows\SysWOW64\Macromed\Flash\NPSWF32_12_0_0_77.dll" --host-
npapi-version=27 --type=renderer
MIB_TCP_STATE_ESTAB      192.168.1.200:55859  74.125.196.16:   993  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_CLOSE_WAIT 192.168.1.200:56687  192.168.1.100:   445    4
System
MIB_TCP_STATE_ESTAB      192.168.1.200:61718  192.168.1.20:    143  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62009  184.87.194.208:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62026  202.221.143.14:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62028  202.221.143.14:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62030  202.221.143.14:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62032  202.221.143.14:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62034  202.221.143.14:   80    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62035  81.19.104.99:    443    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62044  192.168.1.254:  1900    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62045  192.168.1.254:  1900    0
System Idle Process
MIB_TCP_STATE_TIME_WAIT  192.168.1.200:62046  192.168.1.254:  1900    0
System Idle Process
MIB_TCP_STATE_ESTAB      192.168.1.200:62051  93.184.216.146:  443  1800

```

```
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62058      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62061      192.168.1.1:54383      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62062      192.168.1.1:54383      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62063      192.168.1.1:54383      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62065      192.168.1.20: 139      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62069      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62070      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62071      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62073      62.128.100.41: 443      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62075      62.128.100.39: 443      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62076      62.128.100.39: 443      0
System Idle Process
MIB_TCP_STATE_CLOSE_WAIT     192.168.1.200:62079      199.59.148.20: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62080      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62081      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_TIME_WAIT      192.168.1.200:62082      192.168.1.254: 1900      0
System Idle Process
MIB_TCP_STATE_ESTAB          192.168.1.200:62086      62.128.100.41: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          192.168.1.200:62087      62.128.100.39: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          192.168.1.200:62088      62.128.100.39: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB          192.168.1.200:62091      157.56.30.46: 443 1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
```

```
MIB_TCP_STATE_ESTAB      192.168.1.200:64571      192.168.1.20:  143  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
MIB_TCP_STATE_ESTAB      192.168.1.200:64574      74.125.196.16: 993  1800
avp.exe C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet Security
14.0.0\avp.exe "C:\Program Files (x86)\Kaspersky Lab\Kaspersky Internet
Security 14.0.0\avp.exe" -r
```

## やっってること

やっってることは

1. wrapGetExtendedTable.dll  
のxGetExtendedTCPTableOwnerPid(TCP\_TABLE\_CLASS.TCP\_TABLE\_OWNER\_PID\_ALL)を呼び出して通信状況を得る。
2. WMIを使い通信を行っているプロセスIDのプロセス名、実行イメージのパス、引数情報を得る。
3. フォーマットして標準出力へ出力。

wrapGetExtendedTable.dllの中でiphlpapi.dllを呼び出ししています。これが使えない環境では動作しません。

本当にリスナーだけ一覧に出したいなら xGetExtendedTcpTableOwnerPid() の引数を TCP\_TABLE\_CLASS.TCP\_TABLE\_OWNER\_PID\_LISTENER に書き直せばよろしいかと。

あと、管理者権限のあるアカウントで実行しないとプロセスイメージの情報が取れないものがあります。たぶんWMIの仕様かなーと思うんですが。

avp.exe のプロセスがその例で、一般ユーザでの実行ではインストール先までの情報が取れないのですが、管理者で実行すると上記例のようにインストール場所まで取得できるようになります。

## ソース

コピペで使うための雛形的なもの。コメント等はほぼ無い。

## コンパイルのコマンドライン

Visual Studioの出力をそのままコピーした Program.cs と wrapGetExtendedTable.dll を同じフォルダにおいてコンパイルし、TcpListenerList.exeを出力します。自分の環境に合わせて修正してください。

実行の際にも TcpListenerList.exe と wrapGetExtendedTable.dll は同じフォルダに配置しておく必要があります。

[make.bat](#)

```
SET CSPATH="C:\Windows\Microsoft.NET\Framework\v4.0.30319"
SET DLLPATH="C:\Program Files (x86)\Reference
Assemblies\Microsoft\Framework\.NETFramework\v4.0"
```

```
%CSPATH%\Csc.exe /noconfig /nowarn:1701,1702 /nostdlib+ /platform:x86
/errorreport:prompt /warn:4 /errorendlocation /preferreduilang:ja-JP
/highentropyva- /reference:%DLLPATH%\Microsoft.CSharp.dll
/reference:%DLLPATH%\mscorlib.dll /reference:%DLLPATH%\System.Core.dll
/reference:%DLLPATH%\System.dll
/reference:%DLLPATH%\System.Management.dll
/reference:wrapGetExtendedTable.dll /filealign:512 /optimize+
/out:TcpListenerList.exe /target:exe /utf8output Program.cs
```

## TcpListenerList.exe本体

WMIでプロセスの情報を取得しています。HandleプロパティはプロセスIDのことです。

### Program.cs

```
using System;
using System.Collections.Generic;
using System.Net;
using wrapGetExtendedTable;
using System.Management;

namespace TcpListenerList
{
    class Program
    {
        static String getProcessImage(long pid)
        {
            String q = String.Format("Win32_Process.Handle={0}", pid);
            String ans = "";

            try
            {
                ManagementObject mo = new ManagementObject(q);
                ans = mo.Properties["Caption"].Value.ToString() + " ";
                ans += mo.Properties["ExecutablePath"].Value.ToString()
+ " ";

                ans += mo.Properties["CommandLine"].Value.ToString();
            }
            catch (Exception)
            {
            }

            return ans;
        }
        static void Main(string[] args)
        {

```



```

    {
        String q = String.Format("Win32_Process.Handle={0}", pid);
        String ans = "";

        try
        {
            ManagementObject mo = new ManagementObject(q);
            ans = mo.Properties["Caption"].Value.ToString() + " ";
            ans += mo.Properties["ExecutablePath"].Value.ToString()
+ " ";

            ans += mo.Properties["CommandLine"].Value.ToString();
        }
        catch (Exception)
        {
        }

        return ans;
    }
    static void Main(string[] args)
    {

        iphlpapi aa = new iphlpapi();
        MIB_TCPTABLE_OWNER_PID z1 =
aa.xGetExtendedTcpTableOwnerPid(TCP_TABLE_CLASS.TCP_TABLE_OWNER_PID_LIS
TENER);

        MIB_UDPTABLE_OWNER_PID z2 =
aa.xGetExtendedUdpTableOwnerPid(UDP_TABLE_CLASS.UDP_TABLE_OWNER_PID);

        Console.WriteLine("{0,-4} {1,21} {2,6} {3}", "TYPE",
"LocalAddress", "PID", "Command & CommandLine");
        for (int i = 0; i < z1.table.Length; i++)
        {
            IPAddress a = new IPAddress(z1.table[i].dwLocalAddr);
            IPAddress b = new IPAddress(z1.table[i].dwRemoteAddr);

            Console.WriteLine("{0,-4} {1,15}:{2,5} {3,6:#####0}
{4}"
                                , "TCP"
                                , a.ToString()
                                , z1.table[i].dwLocalPort
                                , z1.table[i].dwOwningPid
                                ,
getProcessImage((long)z1.table[i].dwOwningPid));
        }
        for (int i = 0; i < z2.table.Length; i++)
        {
            IPAddress a = new IPAddress(z2.table[i].dwLocalAddr);

            Console.WriteLine("{0,-4} {1,15}:{2,5} {3,6:#####0}
{4}"
                                , "UDP"

```



```
(x86)\Bonjour\mDNSResponder.exe "C:\Program Files
(x86)\Bonjour\mDNSResponder.exe"
TCP      127.0.0.1:27015  1772 AppleMobileDeviceService.exe C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe "C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe"
TCP      127.0.0.1:49158  2000 dirmngr.exe C:\Program Files
(x86)\GNU\GnuPG\dirmngr.exe "C:\Program Files (x86)\GNU\GnuPG\dirmngr.exe" -
-service
TCP      127.0.0.1:52807  7888 gpg-agent.exe C:\Program Files
(x86)\GNU\GnuPG\gpg-agent.exe "C:\Program Files (x86)\GNU\GnuPG\gpg-
agent.exe" --daemon --use-standard-socket
TCP     192.168.1.200:  139      4 System
UDP      0.0.0.0: 500      408 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k netsvcs
UDP      0.0.0.0: 523      1924 db2dasrrm.exe F:\Program
Files\IBM\SQLLIB\bin\db2dasrrm.exe "F:\Program
Files\IBM\SQLLIB\bin\db2dasrrm.exe"
UDP      0.0.0.0: 3544      408 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k netsvcs
UDP      0.0.0.0: 3702      1108 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalService
UDP      0.0.0.0: 3702      2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      0.0.0.0: 3702      1108 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalService
UDP      0.0.0.0: 3702      2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      0.0.0.0: 4500      408 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k netsvcs
UDP      0.0.0.0: 5004      360 wmpnetwk.exe C:\Program Files\Windows
Media Player\wmpnetwk.exe "C:\Program Files\Windows Media
Player\wmpnetwk.exe"
UDP      0.0.0.0: 5005      360 wmpnetwk.exe C:\Program Files\Windows
Media Player\wmpnetwk.exe "C:\Program Files\Windows Media
Player\wmpnetwk.exe"
UDP      0.0.0.0:49489  1108 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalService
UDP      0.0.0.0:53605  1832 mDNSResponder.exe C:\Program Files
(x86)\Bonjour\mDNSResponder.exe "C:\Program Files
(x86)\Bonjour\mDNSResponder.exe"
UDP      0.0.0.0:53607  2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      0.0.0.0:61566  1108 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
```

```
LocalService
UDP      127.0.0.1: 1900    2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      127.0.0.1:53603    1772 AppleMobileDeviceService.exe C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe "C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe"
UDP      127.0.0.1:53604    1772 AppleMobileDeviceService.exe C:\Program
Files (x86)\Common Files\Apple\Mobile Device
Support\AppleMobileDeviceService.exe "C:\Program Files (x86)\Common
Files\Apple\Mobile Device Support\AppleMobileDeviceService.exe"
UDP      127.0.0.1:53679 449904 iexplore.exe C:\Program Files
(x86)\Internet Explorer\iexplore.exe "C:\Program Files (x86)\Internet
Explorer\iexplore.exe"
UDP      127.0.0.1:56398 12164 iexplore.exe C:\Program Files
(x86)\Internet Explorer\iexplore.exe "C:\Program Files (x86)\Internet
Explorer\iexplore.exe" SCODEF:449904 CREDAT:203009
UDP      127.0.0.1:59806 3880 sidebar.exe C:\Program Files\Windows
Sidebar\sidebar.exe "C:\Program Files\Windows Sidebar\sidebar.exe" /autoRun
UDP      127.0.0.1:59807 1440 iTunesHelper.exe D:\Program Files
(x86)\iTunes\iTunesHelper.exe "D:\Program Files
(x86)\iTunes\iTunesHelper.exe"
UDP      127.0.0.1:59808 1440 iTunesHelper.exe D:\Program Files
(x86)\iTunes\iTunesHelper.exe "D:\Program Files
(x86)\iTunes\iTunesHelper.exe"
UDP      127.0.0.1:65180 2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      192.168.1.200: 137      4 System
UDP      192.168.1.200: 138      4 System
UDP      192.168.1.200: 1900    2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
UDP      192.168.1.200: 5353    1832 mDNSResponder.exe C:\Program Files
(x86)\Bonjour\mDNSResponder.exe "C:\Program Files
(x86)\Bonjour\mDNSResponder.exe"
UDP      192.168.1.200:49378 408 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k netsvcs
UDP      192.168.1.200:65179 2036 svchost.exe
C:\Windows\system32\svchost.exe C:\Windows\system32\svchost.exe -k
LocalServiceAndNoImpersonation
```

[技術資料](#), [Windows](#), [tcp/ip](#), [tool](#)

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