



H 8 1 : 8 ? > 4 : ; N G 5 = 8 O

0 8 1 > ; 5 5 @ 0 A ? @ > A B @ 0 = Q == K 5 > H 8 1 : 8 ? @ 8 ? > 4 : ; N G 5 = 8 8.

4 < 8 =, Saturday 27 November 2010 - 00:00:00

H 8 1 : 0 6 1 9

: 0 7 0 = = K 9 ? > @ B = 5 ? > 4 : ; N G 5 = .

> 7 = 8 : 0 5 B , : > 3 4 0 0 H Firewall (= 0 ? @ 8 < 5 @, Outpost, Zone Alarm, = B 8 E 0 : 5 @ 8
 4 @.) 8 ; 8 2 A B @ > 5 == K 9 1 @ M = 4 < 0 C M @ Windows 1 ; > : 8 @ C 5 B
 ? > 4 : ; N G 5 = 8 5 : V P N A 5 @ 2 5 @ C.
 5 H 5 = 8 5: B : ; N G 8 B 5 8 ; 8 : > @ @ 5 : B = > = 0 A B @ > 9 B 5 Firewall, : > B > @ K 9
 4 > ; 6 5 = @ 0 7 @ 5 H 0 B L V P N A > 5 4 8 = 5 = 8 5. 0 = = 0 O > H 8 1 : 0
 2 > 7 = 8 : 0 5 B, 5 A ; 8 7 0 : @ K B L ? > @ B 1 7 2 3, : > B > @ K 9 = 5 > 1 E > 4 8 < 4 ; O
 C A ? 5 H = > 9 @ 0 1 > B K V P N A > 5 4 8 = 5 = 8 O. " 0 : 6 5 4 > ; 6 = K 1 K B L
 @ 0 7 @ 5 H 5 = K M E > 7 0 ? @ > A K P I N G (Echo-Reply 8 Echo-Request) 4 > V P N A 5 @ 2 5 @ 0.
 @ > < 5 B > 3 > 2 A 5 < C 2 8 = > 9 < > 6 5 B A B 0 B L 2 : ; N G 5 = = 0 O A ; C 6 1 0
 « Windows firewall », 2 M B > < A ; C G 0 5 5 5 = 5 > 1 E > 4 8 < > > A B 0 = > 2 8 B L 8
 2 K : ; N G 8 B L . ; O M B > 3 > ? @ > 4 5 ; 0 9 B 5 A ; 5 4 C N I 8 9 ? C B L:

Start -> Control Panel -> Administrative Tools -> Services (0 = 3 ;. 2 5 @ A 8 O)

C A : -> 0 = 5 ; L C ? @ 0 2 ; 5 = 8 O -> 4 < 8 = 8 A B @ 8 @ > 2 0 = 8 5 -> ! ; C 6 1 K
(@ C A. 2 5 @ A 8 O)

@ 8 < 5 G 0 = 8 5: > B : ; N G 5 = 8 5 4 0 = = > 9 A ; C 6 1 K ? > < 8 < > 2 A 5 3 >
 ? @ > G 5 3 > ? > 2 ; 8 0 5 B = 0 @ 0 1 > B C sharing' 0 (? @ 5 4 > A B 0 2 ; 5 = 8 O
 > 1 I 5 3 > 4 > A B C ? 0) A > 5 4 8 = 5 = 8 9! C 4 L B 5 2 = 8 < 0 B 5 ; L = K!

H 8 1 : 0 6 7 8

> 4 5 < 8 ; 8 4 @ C 3 > 5 C A B @ > 9 A B 2 > = 5 A = 8 < 0 5 B
 B 5 ; 5 D > = = C N B @ C 1 : C. @ > 2 5 @ L B 5 = > < 5 @ 8
 ? 5 @ 5 = 0 1 5 @ 8 B 5 5 3 > A = > 2 0. A ; 8 M B >
 ? > 4 : ; N G 5 = 8 5 : 2 8 @ B C 0 ; L = > 9 G 0 A B = > 9 A 5 B 8
 (V P N), ? @ > 2 5 @ L B 5 8 < O
 8 ; 8 I P 0 4 @ 5 A A 5 @ 2 5 @ 0, : : > B > @ > < C 2 K
 ? > 4 : ; N G 0 5 B 5 A L 8 ? > ? @ > 1 C 9 B 5
 ? > 4 : ; N G 8 B L A O A = > 2 0.
 " 0 : 6 5, C 1 5 4 8 B 5 A L, G B > B 5 ; 5 D > = = 0 O ; 8 = 8 O
 ? > 4 : ; N G 5 = 0 2 ? @ 0 2 8 ; L = > 5 3 = 5 7 4 > < > 4 5 < 0.

> 7 = 8 : 0 5 B ? @ 8 = 5 2 5 @ = > = 0 A B @ > 5 = > < 2 ? = ? > 4 : ; N G 5 = 8 8.

5 H 5 = 8 5: 5 @ 5 = 0 A B @ > 9 B 5 2 ? = ? > 4 : ; N G 5 = 8 5 (



0 A B @ > 9 : 8)

H 8 1 : 0 6 9 1

0 H 0 C G Q B = 0 0 7 0 ? 8 A L = 5 7 0 @ 5 3 8 A B @ 8 @ > 2 0 = 0 , ; 8 1 > 2 K
= 5 2 5 @ = > 2 2 5 ; 8 8 = D > @ < 0 F 8 N , ; 8 1 > 0 H 0 C G Q B = 0 0 7 0 ? 8 A L
7 0 1 ; > : 8 @ > 2 0 = 0 .

= 8 < 0 B 5 ; L = > ? 5 @ 5 = 0 1 5 @ 8 B 5 2 0 H 8 8 < 0
? > ; L 7 > 2 0 B 5 ; 0 8 ? 0 @ > ; L . A ; 8 2 K = 5
C 2 5 @ 5 = K 2 M B > 9 8 = D > @ < 0 F 8 8 ,
> 1 @ 0 B 8 B 5 A L : 2 0 H 5 < C A 8 A B 5 < = > < C
0 4 < 8 = 8 A B @ 0 B > @ C .

> 7 = 8 : 0 5 B

1 - # 0 A 7 0 : > = G 8 ; 8 A L 4 5 = L 3 8 .

5 H 5 = 8 5 : @ > 2 5 @ 8 B L stat.nerehta.net

2 - K = 5 2 5 @ = > = 0 1 8 @ 0 5 B 5 8 ; 8 8 < 0 ? > ; L 7 > 2 0 B 5 ; 0 , 8 ; 8
? 0 @ > ; L , 8 ; 8 8 B > 8 4 @ C 3 > 5 .

5 H 5 = 8 5 : @ > 2 5 @ 8 B L < > 6 = > 0 < 0 B : 0 0 1 > = 5 = B C

3 0 H 5 A > 5 4 8 = 5 = 8 5 A = B 5 @ = 5 B C 6 5 0 : B 8 2 = > .

5 H 5 = 8 5 : @ > 2 5 @ 8 B L < > 6 = > stat.nerehta.net

H 8 1 : 0 7 2 0

B A C B A B 2 C N B A 5 B 5 2 K 5 ? @ > B > : > ; K
C ? @ 0 2 ; 5 = 8 0 P P P , A : > = D 8 3 C @ 8 @ > 2 0 = = K 5 4 ; 0
2 0 H 5 3 >
A > 5 4 8 = 5 = 8 0 , ; 8 1 > A > > B 2 5 B A B 2 C N I 8 9
A 5 B 5 2 > 9 ? @ > B > : > ; = 5 1 K ; C A B 0 = > 2 ; 5 = . - B 0
> H 8 1 : 0 < > 6 5 B
? @ > 8 A E > 4 8 B L ? > A ; 5 8 7 < 5 = 5 = 8 0 A 5 B 5 2 > 3 >
? @ > B > : > ; 0 2 ? @ > F 5 A A 5 > 1 = > 2 ; 5 = 8 0
? @ > 3 @ 0 < < = > 3 >
> 1 5 A ? 5 G 5 = 8 0 .

> 7 = 8 : 0 5 B

> > 1 1 5 3 > 2 > @ O M B 0 > H 8 1 : 0 2 > 7 = 8 : 0 5 B 8 7 - 7 0

@ 0 A A > 3 ; 0 A > 2 0 = 8 0 ? @ > B > : > ; > 2 . ! 0 < K 9 ? @ > A B > 9 A ; C G 0 9 M B >

> B A C B A B 2 8 5 ? @ > B > : > ; 0 P P T P 8 ; 8 5 3 > : > @ O 2 K 5 = 0 A B @ > 9 : 8 .

> 1 1 5 < 2 > B : 0 : > 5 B > @ 5 H 5 = 8 5 8 7 8 = 5 B 0 .

5 H 5 = 8 5 :

1) # 4 0 ; 0 5 < T C P I P ? @ > B > : > ; , ? 5 @ 5 7 0 3 @ C 6 0 5 < A O .

2) 0 < 5 = 0 5 < 4 @ 0 9 2 5 @ 4 ; 0 8 = 8 ? > @ B W A N (P P T P) = 0 ; N 1 > 9 4 @ C 3 > 9 ,
: 0 : > 9 ? > 4 @ C : C ? > ? 0 4 Q B A O .

3) # 4 0 ; 0 5 < 8 = 8 ? > @ B W A N (P P T P)

4) @ 5 5 A B @ 5 , ? > 0 4 @ 5 A C



HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002bE10318}

= 0 E > 4 8 < 7 0 ? 8 A L > 8 = 8 ? > @ B WAN (PPTP) 8 C 4 0 ; O 5 <

A > > B 2 5 B A B 2 C N I C N 2 5 B : C.

5) B : @ K 2 0 5 < netrasa.inf 8 < 5 = O 5 <:

[ControlFlags]

ExcludeFromSelect =\

SW\{eeab7790-c514-11d1-b42b-00805fc1270e},\

MS_IrdaMiniport,\

MS_IrModemMiniport,\

MS_L2tpMiniport,MS_PptpMiniport,MS_PtiMiniport,\

MS_NdisWanAtalk,\

MS_NdisWanBh,\

MS_NdisWanIp,\

MS_NdisWanIpx,\

MS_NdisWanNbfIn,MS_NdisWanNbfOut

= 0

[ControlFlags]

;ExcludeFromSelect =\

; SW\{eeab7790-c514-11d1-b42b-00805fc1270e},\

; MS_IrdaMiniport,\

; MS_IrModemMiniport,\

; MS_L2tpMiniport,MS_PptpMiniport,MS_PtiMiniport,\

; MS_NdisWanAtalk,\

; MS_NdisWanBh,\

; MS_NdisWanIp,\

; MS_NdisWanIpx,\

; MS_NdisWanNbfIn,MS_NdisWanNbfOut

6) # A B 0 = 0 2 ; 8 2 0 5 < 8 = 8 ? > @ B WAN (PPTP)

7) # A B 0 = 0 2 ; 8 2 0 5 < TCP/IP ? @ > B > : > ;

H 8 1 : 0 7 2 1

@ > 8 7 > H ; 0 ? > ? K B : 0 = 0 G 0 B L PPP- 4 8 0 ; > 3, ,

> 4 = 0 : > C 4 0 ; 5 = = K 9 : > < ? L N B 5 @ = 5

> B 2 5 G 0 5 B. 0 = = 0 O

> H 8 1 : 0 2 > 7 = 8 : 0 5 B 5 A ; 8 A 5 @ 2 5 @ = 5

? > 4 4 5 @ 6 8 2 0 5 B PPP (Windows NT 3.51 8 1 > ; 5 5 @ 0 = = 8 5

A 5 @ 2 5 @ K

C 4 0 ; 5 = = > 3 > 4 > A B C ? 0, ; 8 1 > SLIP A 5 @ 2 5 @).

0 = = 0 O > H 8 1 : 0 B 0 : 6 5 < > 6 5 B 2 > 7 = 8 : 0 B L,

5 A ; 8 A 5 @ 2 5 @ B @ 5 1 C 5 B @ 5 3 8 A B @ 0 F 8 N A

8 A ? > ; L 7 > 2 0 = 8 5 < > : = 0

B 5 @ < 8 = 0 ; 0 ? 5 @ 5 4 7 0 ? C A : > < PPP. A ; 8

8 A ? > ; L 7 > 2 0 = 8 5 > : = 0 B 5 @ < 8 = 0 ; 0 4 ; 0



@ 5 3 8 A B @ 0 F 8 8 @ 5 H 0 5 B
? @ > 1 ; 5 < C , 4 ; 0 ? > A ; 5 4 C N I 8 E ? > 4 : ; N G 5 = 8 9
2 K < > 6 5 B 5 0 2 B > < 0 B 8 7 8 @ > 2 0 B L ? @ > F 5 A A
@ 5 3 8 A B @ 0 F 8 8 ,
? > ; L 7 C O A L A F 5 = 0 @ 8 O < 8 Windows.
- B 0 > H 8 1 : 0 B 0 : 6 5 < > 6 5 B C : 0 7 K 2 0 B L = 0
0 ? ? 0 @ 0 B = K 5 = 5 8 A ? @ 0 2 = > A B 8 2 0 H 5 3 >
: > < ? L N B 5 @ 0 , ; 8 1 >
C 4 0 ; 5 = = > 3 > A 5 @ 2 5 @ 0 .

2 A B @ > 5 = = K 9

1 @ M = 4 < 0 C M @ Windows

1 ; > : 8 @ C 5 B ? > 4 : ; N G 5 = 8 5 : V P N

A 5 @ 2 5 @ C .

5 H 5 = 8 5 :

H 8 1 : 0 7 3 3

! 5 @ 2 5 @ ? > 4 4 5 @ 6 8 2 0 5 B P P P , > 4 = 0 : > = 5
? > 4 4 5 @ 6 8 2 0 5 B A 5 B 5 2 K 5 ? @ > B > : > ; K 4 ; 0
2 0 H 5 3 >
A > 5 4 8 = 5 = 8 O . > ? @ > A 8 B 5 2 0 H 5 3 >
A 8 A B 5 < = > 3 > 0 4 < 8 = 8 A B @ 0 B > @ 0
A : > = D 8 3 C @ 8 @ > 2 0 B L A > 5 4 8 = 5 = 8 5 4 ; 0
8 A ? > ; L 7 > 2 0 = 8 O A 5 B 5 2 K E ? @ > B > : > ; > 2 ,
? > 4 4 5 @ 6 8 2 0 5 < K E 2 0 H 8 < A 5 @ 2 5 @ > < . " 0 : 6 5 ,
2 0 H A 8 A B 5 < = K 9
0 4 < 8 = 8 A B @ 0 B > @ < > 6 5 B 2 : ; N G 8 B L
P P P - @ 5 3 8 A B @ 0 F 8 N A 8 A ? > ; L 7 > 2 0 = 8 5 <
C B 8 ; 8 B K Netsh.exe , M B > < > 6 5 B
? > < > G L > ? @ 5 4 5 ; 8 B L ? @ 8 G 8 = K
2 > 7 = 8 : = > 2 5 = 8 O ? @ > 1 ; 5 < K .

0 = = 0 O > H 8 1 : 0 4 > 2 > ; L = > ; 5 3 : >
C A B @ 0 = O 5 B A O , 5 A ; 8 ? @ 8 ? > O 2 ; 5 = 8 8
A ; 5 4 C N I 5 3 > > : > H : 0 :
> B < 5 B 8 B L 3 0 ; > G : > 9 ? C = : B " 5
7 0 ? @ 0 H 8 2 0 B L 1 > ; 5 5 ? @ > B > : > ; K A
> H 8 1 : 0 < 8 " .
> 7 = 8 : 0 5 B > H 8 1 : 0 2 B 5 E A ; C G 0 O E , : > 3 4 0 2 A ? 8 A : 5
: > < ? > = 5 = B > 2 , 8 A ? > ; L 7 C 5 < K E V P N - A > 5 4 8 = 5 = 8 5 < ,
= 0 E > 4 8 B A O 0 : B 8 2 = K 9 I P X ? @ > B > : > ; .



H 8 1 : 0 7 3 4

8 0 ; > 3 ? @ > B > : > ; 0 C ? @ 0 2 ; 5 = 8 O : 0 = 0 ; > < P P P
= 0 G 0 ; A O , > 4 = 0 : > 1 K ; 7 0 2 5 @ H 5 = ? >
B @ 5 1 > 2 0 = 8 N
C 4 0 ; 5 = = > 3 > : > < ? L N B 5 @ 0 . > 7 < > 6 = > ,
> H 8 1 : 0 2 K 7 2 0 = 0 ? @ > 1 ; 5 < 0 < 8 = 0 A 5 @ 2 5 @ 5 .
1 @ 0 B 8 B 5 A L : 2 0 H 5 < C
A 8 A B 5 < = > < C 0 4 < 8 = 8 A B @ 0 B > @ C " 0 : 6 5 , 2 0 H
A 8 A B 5 < = K 9 0 4 < 8 = 8 A B @ 0 B > @ < > 6 5 B
2 : ; N G 8 B L P P P -
@ 5 3 8 A B @ 0 F 8 N A 8 A ? > ; L 7 > 2 0 = 8 5 < C B 8 ; 8 B K
Netsh.exe, M B > < > 6 5 B ? > < > G L > ? @ 5 4 5 ; 8 B L
? @ 8 G 8 = K
2 > 7 = 8 : = > 2 5 = 8 O ? @ > 1 ; 5 < K .
> 7 = 8 : 0 5 B ? @ 8 = 5 2 5 @ = K E = 0 A B @ > 9 : 0 E 1 5 7 > ? 0 A = > A B 8 .
5 H 5 = 8 5 :

@ > 2 5 @ L B 5 = 0 A B @ > 9 : 8 1 5 7 > ? 0 A = > A B 8
0 H 5 3 > 2 ? = A > 5 4 8 = 5 = 8 O (0 A B @ > 9 : 8)

H 8 1 : 0 7 4 1

> : 0 ; L = K 9 : > < ? L N B 5 @ = 5 ? > 4 4 5 @ 6 8 2 0 5 B
B @ 5 1 C 5 < K 9 B 8 ? : > 4 8 @ > 2 0 = 8 O 4 0 = = K E .
> 7 = 8 : 0 5 B ? @ 8 = 5 2 5 @ = K E = 0 A B @ > 9 : 0 E 1 5 7 > ? 0 A = > A B 8 .
5 H 5 = 8 5 :

@ > 2 5 @ L B 5 = 0 A B @ > 9 : 8 1 5 7 > ? 0 A = > A B 8
0 H 5 3 > 2 ? = A > 5 4 8 = 5 = 8 O (0 A B @ > 9 : 8)

H 8 1 : 0 7 6 9 # : 0 7 0 = = K 9 0 < 8 0 4 @ 5 A = 5 2 5 @ 5 = , ; 8 1 > 2 0 H
A 5 @ 2 5 @ C 4 0 ; 5 = = > 3 > 4 > A B C ? 0 = 5 4 > A B C ? 5 = . > 7 = 8 : 0 5 B ,
: > 3 4 0 0 H Firewall (= 0 ? @ 8 < 5 @ , Outpost, Zone Alarm, = B 8 E 0 : 5 @ 8 4 @ .) 8 ; 8
2 A B @ > 5 = = K 9 1 @ M = 4 < 0 C M @ Windows 1 ; > : 8 @ C 5 B ? > 4 : ; N G 5 = 8 5 : V P N
A 5 @ 2 5 @ C .
5 H 5 = 8 5 : B : ; N G 8 B 5 8 ; 8 : > @ @ 5 : B = > = 0 A B @ > 9 B 5 Firewall,
: > B > @ K 9 4 > ; 6 5 = @ 0 7 @ 5 H 0 B L V P N A > 5 4 8 = 5 = 8 5 .
H 8 1 : 0 7 8 9 > ? K B : 0 L 2 T P - ? > 4 : ; N G 5 = 8 O = 5 C 4 0 ; 0 A L 8 7 - 7 0
> H 8 1 : 8 , ? @ > 8 7 > H 5 4 H 5 9 = 0 C @ > 2 = 5 1 5 7 > ? 0 A = > A B 8 2 > 2 @ 5 < O
A > 3 ; 0 A > 2 0 = 8 9 A C 4 0 ; 5 = = K < : > < ? L N B 5 @ > < . > 7 = 8 : 0 5 B ,
: > 3 4 0 C : 0 7 0 = = 5 2 5 @ = K 9 B 8 ? V P N - ? > 4 : ; N G 5 = 8 O = 0 2 : ; 0 4 : 5
! 5 B L (L 2 T P I P S e c) 2 A 2 > 9 A B 2 0 E 8 @ B C 0 ; L = > 3 > ? > 4 : ; N G 5 = 8 O .



5 > 1 E > 4 8 < > 8 A ? > ; L 7 > 2 0 B L B 8 ? ? > 4 ; ; N G 5 = 8 O P P T P (? >
C < > ; G 0 = 8 N B 8 ? ? > 4 ; ; N G 5 = 8 O 7 0 4 0 5 B A O 0 2 B > < 0 B 8 G 5 A : 8) .

5 H 5 = 8 5 : # A B 0 = > 2 8 B 5 " " 8 ? V P N " = 0 2 ; ; 0 4 : 5 " ! 5 B L " A 2 > 9 A B 2 V P N
A > 5 4 8 = 5 = 8 O 2 " 2 B > < 0 B 8 G 5 A : 8 " ; 8 1 > C 4 0 ; 8 B 5 8 7 0 = > 2 >
= 0 A B @ > 9 B 5 V P N ? > 4 ; ; N G 5 = 8 5 . 0 A B @ > 9 : 8 ? > A < > B @ 5 B L
< > 6 = > = 0 0 A B @ > 9 : 8 H 8 1 : 0 8 0 0

> 7 = 8 : 0 5 B ? @ 8 :

1 = 5 2 5 @ = K E = 0 A B @ > 9 : 0 E 1 5 7 > ? 0 A = > B 8 V P N ? > 4 ; ; N G 5 = 8 O

5 H 5 = 8 5 : @ > 2 5 @ 8 B L = 0 A B @ > 9 : 8 1 5 7 > ? 0 A = > A B 8 2 ? =

? > 4 ; ; N G 5 = 8 O . 0 A B @ > 9 : 8 ? > A < > B @ 5 B L < > 6 = > = 0

0 A B @ > 9 : 8

2 1 ; > : 8 @ C 5 B firewall

5 H 5 = 8 5 : > @ @ 5 : B = > = 0 A B @ > 9 B 5 A 2 > 9 firewall

3 > B : ; N G 5 = > ? > 4 ; ; N G 5 = 8 5 ? > ; > : 0 ; L = > 9 A 5 B 8

5 H 5 = 8 5 : 4 ; O Win XP - C A : - (0 A B @ > 9 : 0) 0 = 5 ; L # ? @ 0 2 ; 5 = 8 O -

! 5 B 5 2 K 5 ? > 4 ; ; N G 5 = 8 O ,

2 ; ; N G 8 B L > 4 ; ; N G 5 = 8 5 ? > ; > : 0 ; L = > 9 A 5 B 8 .

4 ; O Win Vista - C A : - 0 = 5 ; L # ? @ 0 2 ; 5 = O - & 5 = B @ C ? @ 0 2 ; 5 = 8 O

A 5 B O < 8 8 > 1 I 8 < 4 > A B C ? > < - # ? @ 0 2 ; 5 = 8 5 A 5 B 5 2 K < 8

? > 4 ; ; N G 5 = 8 O < 8 , 2 ; ; N G 8 B L > 4 ; ; N G 5 = 8 5 ? > ; > : 0 ; L = > 9

A 5 B 8 .

4 > B : ; N G 5 = A 5 B 5 2 > 9 0 4 0 ? B 5 @ (? @ > 3 @ 0 < < = >)

5 ; 8 1 > 2

A 8 A B 5 < 5 1 C 9 A B 2 C 5 B 2 8 @ C A .

5 H 5 = 8 5 :

@ > 2 5 @ L B 5 : > < ? L N B 5 @

0 = B 8 2 8 @ C A = K < 8 ? @ > 3 @ 0 < < 0 < 8 8 0 = B 8 B @ > O = 0 < 8 .

H 8 1 : 0 8 1 5

> 7 = 8 : 0 5 B ? @ 8 :

1 = 5 2 5 @ = K E = 0 A B @ > 9 : 0 E V P N ? > 4 ; ; N G 5 = 8 O

5 H 5 = 8 5 :

! Windows

XP/Vista A = O B L 3 0 ; > G : C " ! = 0 G 0 ; 0 = 0 1 @ 0 B L = > < 5 @ 4 ; O M B > 3 >

? > 4 ; ; N G = 8 O " = 0 2 ; ; 0 4 : 5 " 1 I 8 5 " A 2 > 9 A B 2 V P N A > 5 4 8 = 5 = 8 O .