BINL Protocol Specifications

Client packet starts with: 0x81 Server packet starts with: 0x82

Note: int32, short16 and unicode strings are Little Endian

NCQ - Network Card Query (issued by the client)

										.NCQ0
00000010	00 0c 29	15 c4	17 00	00 00	00 6	90 00	00 00	00	00)
00000020	02 00 00	00 22	10 00	20 02	00 6	00 1 0	88 00	00	00	
00000030	22 10 00	20 16	00 5c	5c 41	74 7	74 69	6c 61	5c	52	"\\Attila\R
00000040	65 6d 49	6e 73	74 5c	77 69	6e 7	70 65	00 00			emInst\winpe

NCQ Structure

Name	Offset	Bytes	СТуре	Sample	Description
tag	0x00	4	char[4]	\x81NCQ	
len	0x04	4	int32	0x30	Size of the packet excluding tag and len
u1	0x08	4	int32	Ox2	
u2	ОхОс	4	int32	0x0	
mac	0x10	6	byte[6]	00:0c:29:15:c4:17	Mac Address
pad	0x16	2	byte[2]	00:00	Padding
u3	Ox18	4	int32	0x0	
u4	Ox1c	4	int32	0x0	
u5	0x20	4	int32	Ox2	
vid	0x24	2	short16	0x1022	Vendor id 0x1022 is AMD
pid	0x26	2	short16	0x2000	Product id 0x2000 is AMD pcnet vmware card
rev_u1	Ox28	1	byte	Ox2	
rev_u2	Ox29	1	byte	0x0	
rev_u3	Ox2a	1	byte	0x0	
rev	Ox2b	1	byte	0x10	
rev2	Ox2c	4	int32	Ox88	
subsys	0x30	4	int32	0x20001022	Device Subsystem
lenp	0x34	2	short16	Ox16	Installation path len including trailing \x00
path	0x36	(23)	char	\\Attila\RemInst\winpe	Installation path
еор	0x4d	1	byte	0x0	End of packet - always 0x0

NCR - Network Card Reply (reply from server)

```
00 00 00 00 02 00 00 00
                                                            .NCR.....
00000000
         82 4e 43 52 c4 00 00 00
00000010
         24 00 00 00 50 00 00 00
                                  6a 00 00 00 56 00 00 00
                                                           |$...P...j...V...
00000020
         76 00 00 00 50 00 43 00
                                  49 00 5c 00 56 00 45 00
                                                           |v...P.C.I.\.V.E.
                                                           |N._.1.0.2.2.&.D.
00000030
                                  32 00 32 00 26 00 44 00
         4e 00 5f 00 31 00 30 00
00000040
         45 00 56 00 5f 00 32 00
                                  30 00 30 00 30 00 00 00
                                                           |E.V._.2.0.0.0...
                                                            p.c.n.t.p.c.i.5.
00000050
         70 00 63 00 6e 00 74 00
                                  70 00 63 00 69 00 35 00
00000060
         2e 00 73 00 79 00 73 00
                                  00 00 50 00 43 00 6e 00
                                                            ..s.y.s...P.C.n.
00000070
         65 00 74 00 00 00 44 65 73 63 72 69 70 74 69 6f
                                                           e.t...Descriptio
00000080
         6e 00 32 00 53 63 68 65
                                  64 61 20 45 74 68 65 72
                                                           n.2.Scheda Ether
00000090
         6e 65 74 20 50 43 49 20 41 4d 44 20 50 43 4e 45
                                                            net PCI AMD PCNE
000000a0 54 20 46 61 6d 69 6c 79 00 43 68 61 72 61 63 74
                                                           T Family.Charact
000000b0 65 72 69 73 74 69 63 73 00 31 00 31 33 32 00 42
                                                           eristics.1.132.B
000000c0 75 73 54 79 70 65 00 31 00 35 00 00 00 00
                                                           usType.1.5....
```

NCR Structure

Name	Offset	Bytes	СТуре	Sample	Description
tag	0x00	4	char[4]	\x82NCR	
len	0x04	4	int32	Oxc4	Size of the packet excluding tag and len
res	0x08	4	int32	0x0	Result code 0x0: Ok - 0xc00000d: Not Found
type	0x0c	4	int32	Ox2	Туре
boff	0x10	4	int32	Ox24	Base offset
doff	Ox14	4	int32	0x50	Driver name offset
soff	Ox18	4	int32	Ox6a	Service name offset
plen	Ox1c	4	int32	Ox56	Parameters list length in chars
poff	0x20	4	int32	0x76	Parameters list offset
dev	Ox24	(1)			
sep1	Ox25	1	byte	0x0	Separator
drv	0x26	(25)	char	pcntpci5.sys	Unicode Driver name
sep2	Ox3f	1	byte	0x0	Separator
srv	0x40	(11)	char	PCnet	Unicode Service Name
sep3	0x4b	1	byte	ОхО	Separator
params	Ox4c	(2)	char	-	Parameters: variable structure

RQU - File request

RQU Structure

Name	Offset	Bytes	СТуре	Sample	Description
tag	0x00	4	char[4]	\x81RQU	
len	0x04	4	int32	Ox22	Size of the packet excluding tag and len
u1	0x08	28	char[28]	Binary Data	Unknown binary data sent back in reply
file	Ox24	(8)	char	LOGIN\n	Requested filename without .osc ext

RSU - File reply

```
      000000000
      82
      52
      53
      55
      a5
      03
      00
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```

RSU Structure

Name	Offset	Bytes	СТуре	Sample	Description
tag	0x00	4	char[4]	\x82RSU	
len	0x04	4	int32	Ox3a5	Size of the packet excluding tag and len
u1	0x08	28	char[28]	Binary Data	Unknown binary data sent back in reply
data	0x24	(6)	char		File data
еор	Ox2a	1	byte	0x0	End of packet - always 0x0

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