

Advanced TCP/IP Data Logger

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1

1.1 Advanced TCP/IP Data Logger

Advanced TCP/IP Data Logger
Excel, Access,
Logger

TCP/IP
Windows. Advanced TCP/IP Data

Ethernet.

TCP UDP

Advanced TCP/IP Data Logger

SCADA
(Dynamic Data Exchange) OPC

DDE
ODBC,

Advanced TCP/IP Data Logger:

-
-
- (ASCII)
-
-
-
-
- MS Access, MS Excel, dBASE
Excel, MS Access) ODBC- (MS SQL, Oracle,
" " (MS
- Advanced TCP/IP Data Logger DDE OPC ;
- Advanced TCP/IP Data Logger
(OLE) Microsoft Excel ;
-
-
-
-
- Windows 9x/Me/NT/2000/XP/Vista, x86
x64.

Advanced TCP/IP Data Logger

ASCII MODBUS.

Advanced TCP/IP Data Logger,

Advanced TCP/IP Data Logger

Windows NT/2000/XP,

Advanced TCP/IP Data Logger

Advanced TCP/IP Data Logger
(Terminal Server)

Ethernet. Terminal Server
RS232 RS485, RS232 RS485. TCP/IP

RS232-Ethernet
RS232 RS485
Ethernet

TCP/IP IP

• RS-232 RS-485;
• ;
• / ;
• ;
• ;
• RFID;
• ;
• ;
• ;
• ;

: <http://www.aggsoft.ru/>
: <http://www.aggsoft.ru/tcpip-data-logger.htm>

1.2

ASCII - ASCII

Windows
ASCII. ASCII *.TXT

(, README.TXT).

Binary File -

ASCII (0 255).

Bytes () -

Bit () -

8

()

: 0 1. 8

Cable () -

Client/Server (/) -

. .)

(, ,)

DNS (Domain Name System) - DNS

(TCP/IP)

DNS

() IP

www.aggsoft.com 198.63.211.24.

Internet () -

TCP/IP

IP, Internet Protocol () - Internet Protocol,

TCP/IP,

IP

IP

'xx.xx.xx.xx'.

IP (Internet Protocol) -

TCP/IP.

IP

IP

.

: 198.63.211.24.

LAN (Local Area Network) -

NIC, Network Interface Card () -

turbochannel, nuBus, .)

(

, 10baseFL).

PC () -

Personal Computer (

).

Ports () -

Protocol () -

TCP/IP, Transport Control Protocol / Internet Protocol - TCP IP

. TCP/IP

Internet.

2

2.1

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1. Advanced TCP/IP Data Logger -
- 2.
3. Advanced TCP/IP Data Logger ,
- 4.
5. Advanced TCP/IP Data Logger sales@aggsoft.ru
6. Advanced TCP/IP Data Logger , ,
Advanced TCP/IP Data Logger .
7. **Advanced TCP/IP Data Logger** "AS IS".
- 8.
9. Advanced TCP/IP Data Logger , .

10.

Advanced TCP/IP Data Logger
Advanced TCP/IP Data Logger.

2.2

shareware-

 5

-
-
-

21

100

2.3

shareware-

 4

Internet,

2.4

Advanced TCP/IP Data Logger	support@aggsoft.ru
	support@aggsoft.ru
	sales@aggsoft.ru

3

3.1

- Windows 95 (comctrl.dll,);
- Windows 95 OSR2;
- Windows 98;
- Windows Me.

- Windows NT4 (SP4).
- Windows 2000 Professional;
- Windows 2000 Server;
- Windows XP x86 x64;
- Windows 2003 Server x86 x64;
- Windows Vista () x86 x64.

Internet Explorer 5.0

3.2

Advanced TCP/IP Data Logger.

, Advanced TCP/IP Data Logger
Advanced TCP/IP Data Logger"

"/Programs Files/

Advanced TCP/IP Data Logger

4

4.1

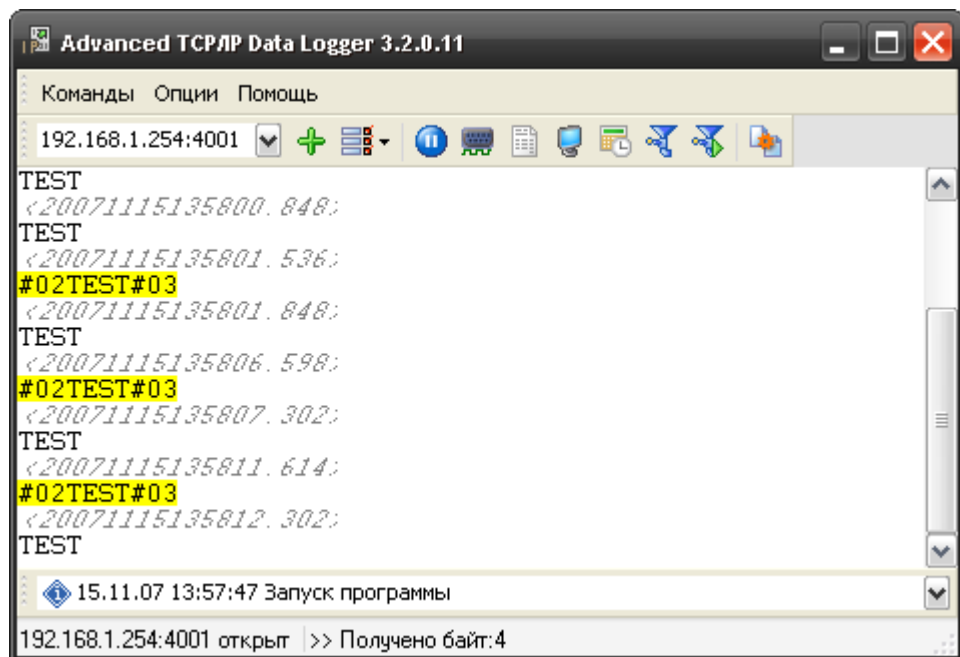
Advanced TCP/IP Data Logger

Advanced TCP/IP Data Logger

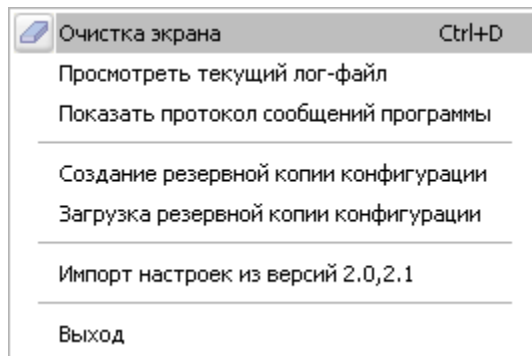
" "

() (.1),

" / ..."), " (.2)



.1



.2.

"

"

C:\.

**1-2-3-4-5****1.**" _____ " **2.**

IP"

3. Configure log file.

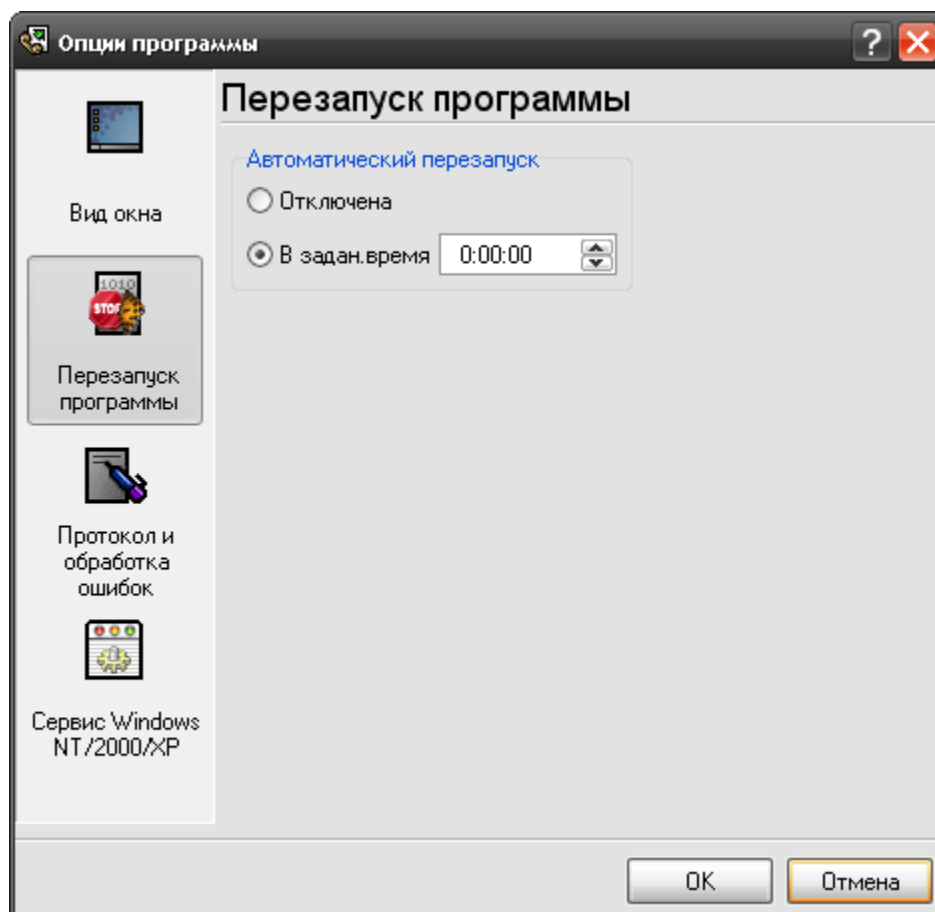
Select the "Log file" header in the port options dialog window and enable logging for a necessary data direction.

4." _____ " **5.** Advanced TCP/IP Data Logger

Advanced TCP/IP Data Logger

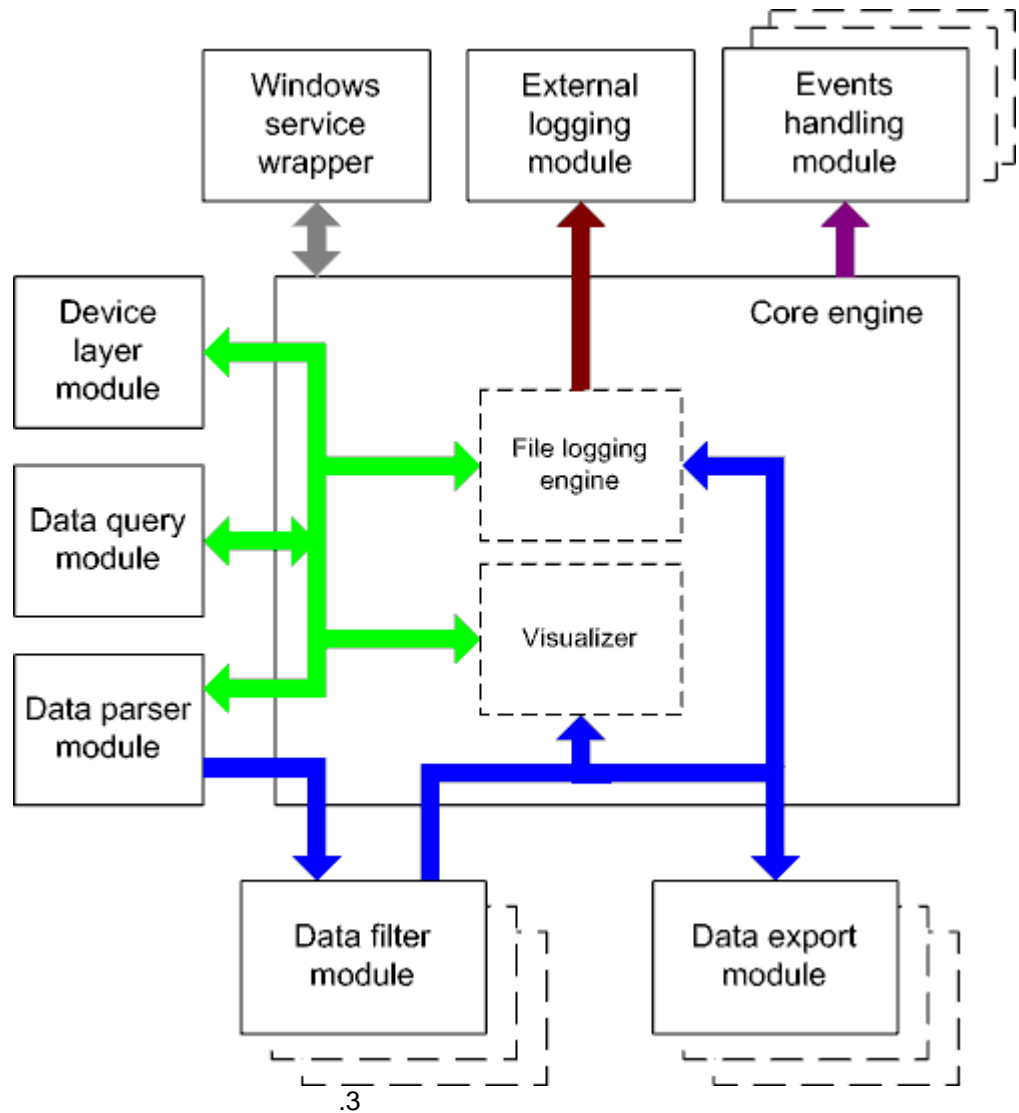
4.2

(NIC).
 :
 • (NIC), Advanced TCP/IP Data Logger will IP
 Data Logger IP , , Advanced TCP/IP
 • Advanced TCP/IP Data Logger ;
 IP DHCP, IP
 " [TCP/IP](#) ¹⁶
 ".
 - - ,
 - ²²
 - ²⁴
 ([.1](#) ⁷).
 " ²⁰ ",
 Advanced TCP/IP Data Logger ³¹.
 - Advanced
 TCP/IP Data Logger. Advanced TCP/IP Data Logger
 ²⁵ (plug-ins),
 " ²⁵ ".
 ³² ([.1](#) ⁷),



.3

4.3



- - ()
- - ()

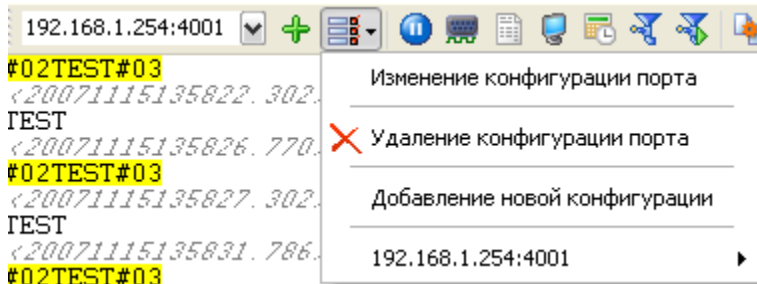
• Core engine -

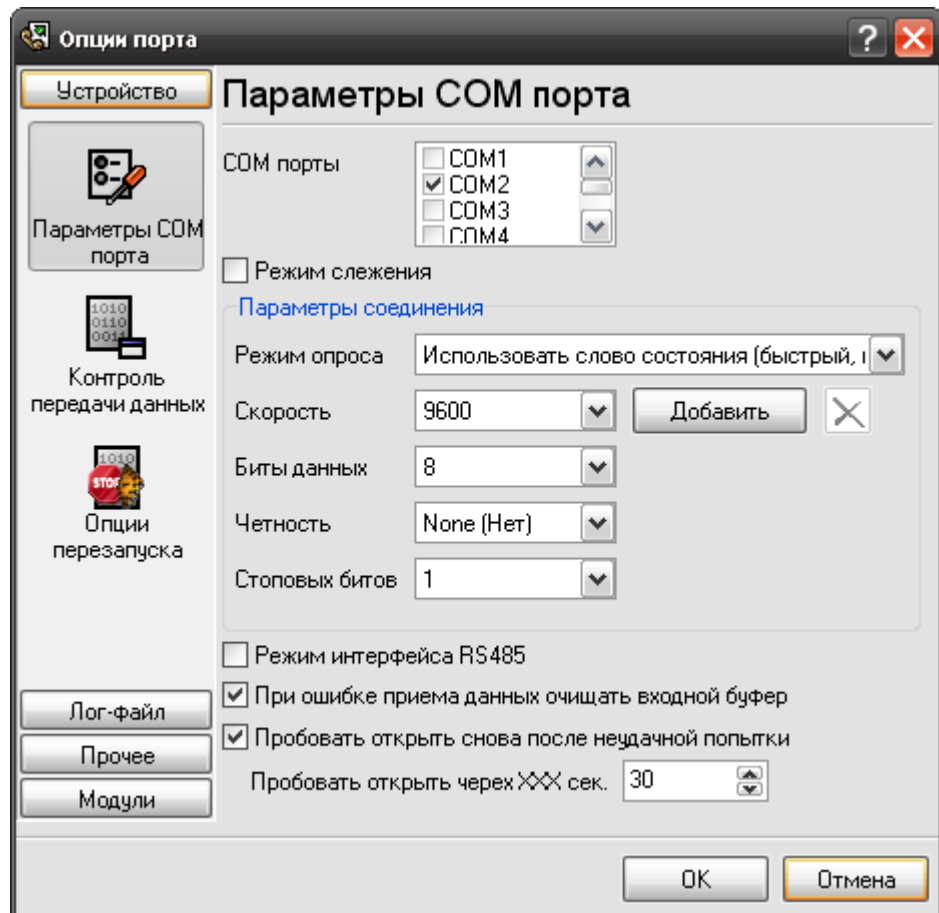
- Device layer module -
- Data query module -
- Data parser module -
- Data filter module -
- Data export module -
- Visualizer -
- File logging engine -
- Windows service wrapper -
- External logging module -
- Events handling module -

4.4

4.4.1

(COM)





.5 COM-

RS-485

RTS-

API-

Windows

: API-

Windows.

API,

Windows

API

API -

. Advanced

TCP/IP Data Logger

(WRPI.DRV

),

10% Xon.

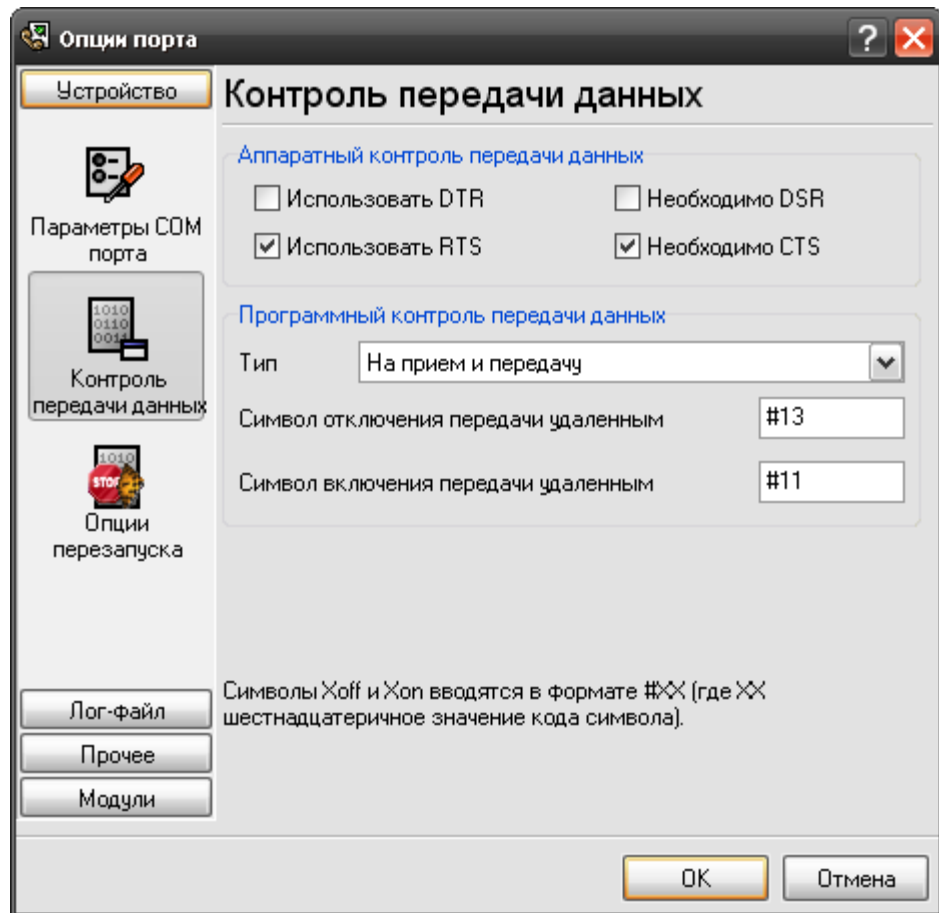
" " " " " "

" " 10% 90%

Xoff. Xon

)

0x11 0x13 - COM-



.6

Advanced TCP/IP Data Logger

```

COM-
COM-
Advanced TCP/IP Data Logger,
COM-
Advanced TCP/IP Data Logger.
UART (UART receiver parity error) -
;
UART (UART receiver overrun),
UART (UART receiver framing error) -
;
CTS (transmit timeout waiting for CTS),
DSR (transmit timeout waiting for DSR),
RLSD (transmit timeout waiting for RLSD) -
;
;
Logger (transmit queue is full) - Advanced TCP/IP Data
;
break (break condition received)

```

4.4.2 TCP/IP

UDP TCP

```

UDP (User Datagram Protocol). TCP
TCP (Transport Control Protocol)
IP. TCP
TCP
UDP TCP
UDP
UDP

```

TCP, UDP

IP

TCP, UDP

UDP

Instant Messaging,

IP.

Advanced TCP/IP Data Logger

TCP/IP

(

TCP/IP) Advanced TCP/IP Data Logger

1.

IP

TCP/IP

Advanced TCP/IP Data Logger

(www.yourserver.com)

IP

"Plant1",

"Plant1"

IP

Logger

IP

Advanced TCP/IP Data

2.

IP

IP

Advanced TCP/IP Data Logger

(NIC),

IP

Advanced TCP/IP Data

Logger

IP

Microsoft Windows,
IP

TCP/

IP

IP

"OK"

Advanced TCP/IP Data Logger

TCP/IP.

IP

Advanced TCP/IP Data Logger

Advanced TCP/IP Data Logger

(.17).

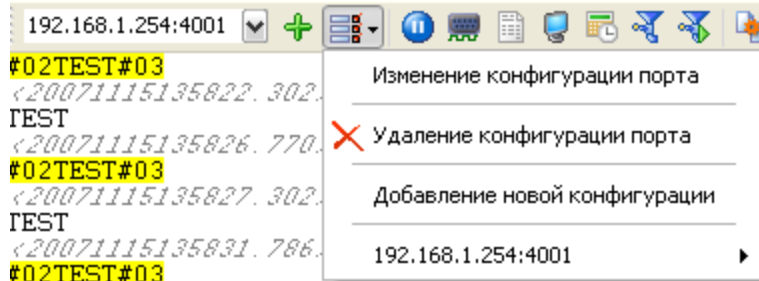
(.17)

" "

(.5).
IP"

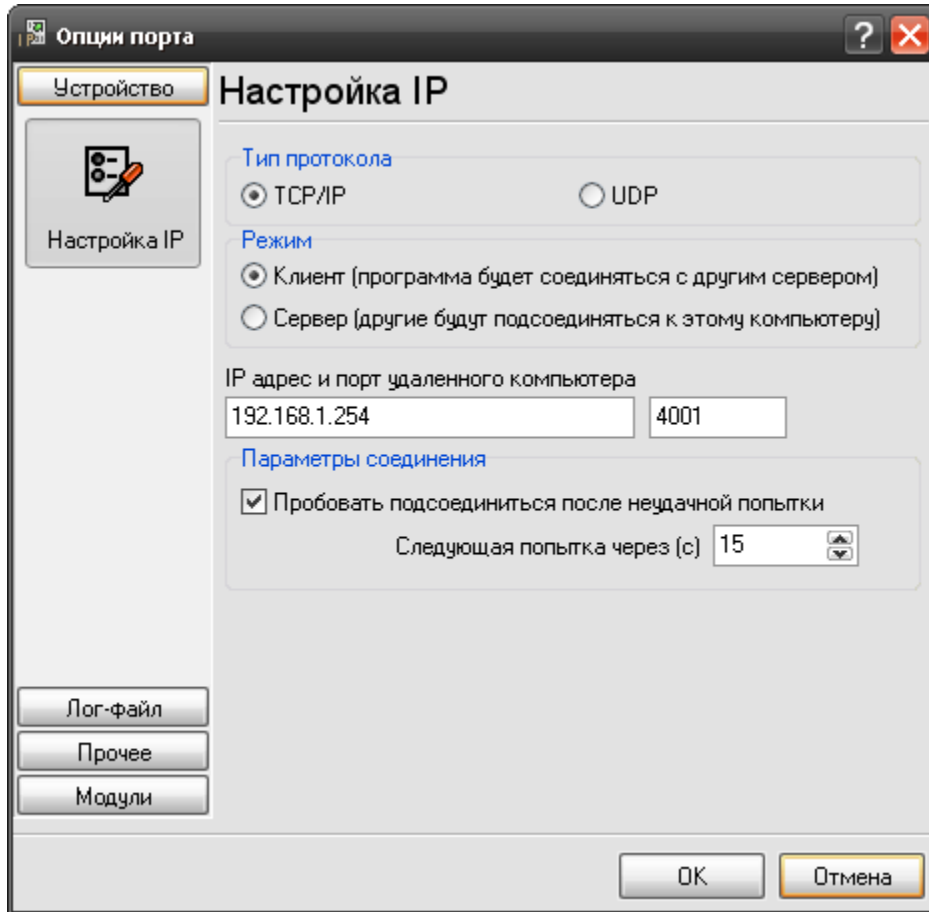
TCP/IP

" (.4).



.4

TCP/IP: IP"



.5 TCP/IP.

```

IP
SMTP - 25, the telnet - 23,
NNTP - 119,
SERVICES, Windows ( Windows NT
WINNT\SYSTEM32\DRIVERS\ETC). SERVICES -
Advanced TCP/IP Data Logger
(
(
).

IP (socket).
IP
IP
(
).
(
)
", Advanced TCP/IP Data Logger
"
XXX " N
IP
IP
Advanced TCP/IP Data Logger IP
(firewall)

```

Advanced TCP/IP Data Logger

Microsoft Windows XP Service Pack 2 (SP2),
. Windows Firewall,

Windows Firewall

(Security Alert).



.6

-
-
-

Windows XP SP2

4.4.3

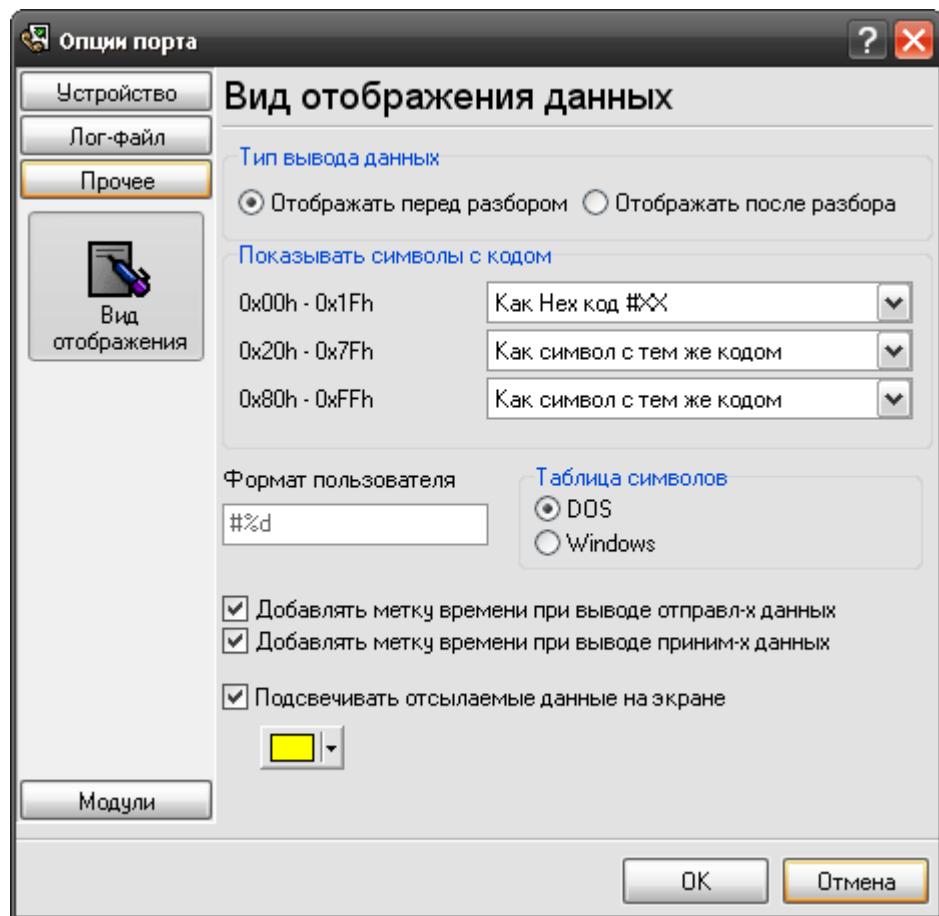
(.1^{7h})

2

(.7):

1.

2.



.7.

1.

2.

3.

4.

Hex-

%d

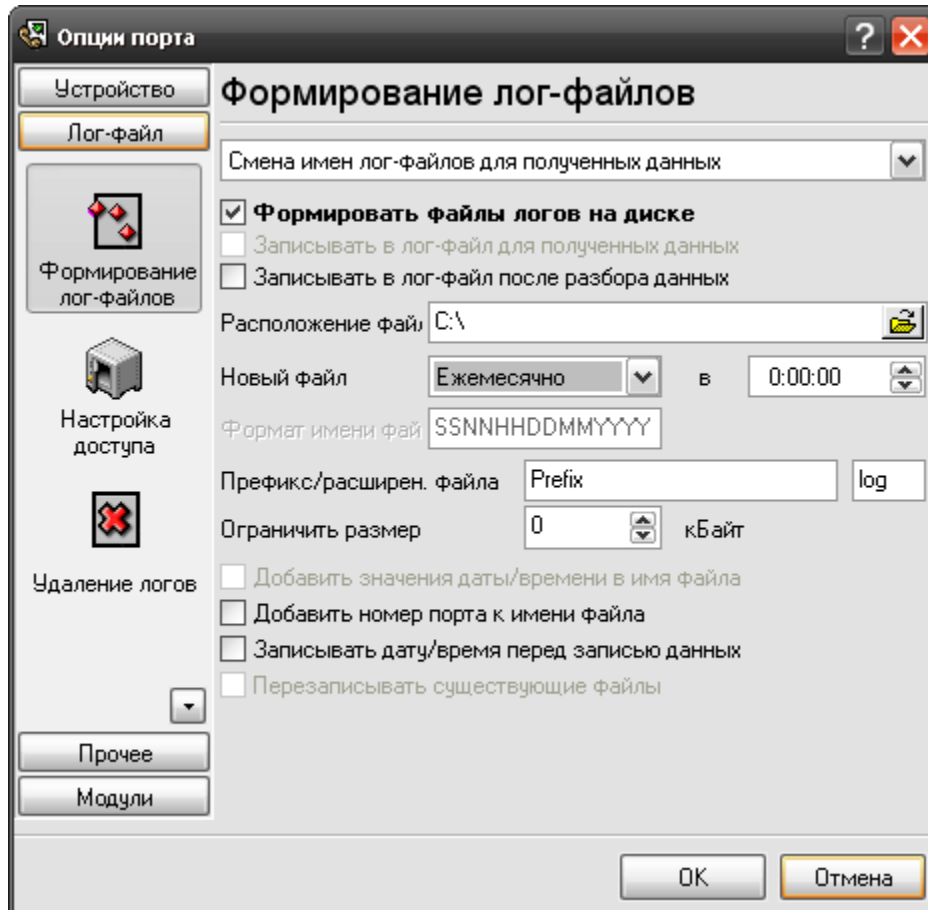
, %x -

4.4.4

4.4.4.1

COM

(.1).



.8.

"OK".

Advanced TCP/IP Data Logger

"log ",

"sample",

"sampleYYYYMMDD.log". 21-

2003 - "sample20030321.log".
 (,) ,

• " " - ; ,
 • " " - ;
 • (" -) , ;
 " " . , ,
 !

• " " DDMMYYYY, DD -
 , MM - YYYY -
 ; " " MMYYYY.
 • " " (,
 DDMMYYYY).

"/", "\", "*", "?"

- d - , (1 - 31);
- dd - , (01 - 31);
- ddd - (-) , ;
- dddd - (-) ;
- m - , (1 - 12);
- mm - , (01 - 12);
- mmm - (-) , ;
- mmmm - (-) , ;
- yy - (00 - 99);

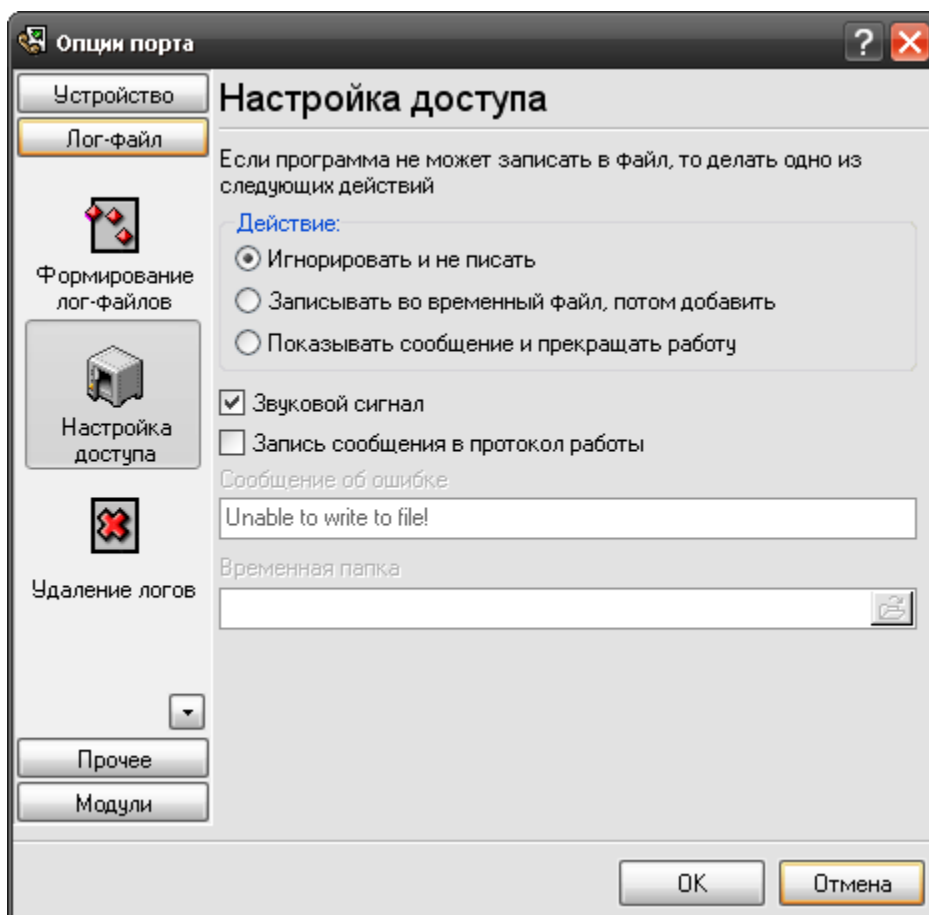
```
yyyy - (0000 - 9999);
h - (0 - 23);
hh - (00 - 23);
n - (0 - 59);
nn - (00 - 59);
s - (0 - 59);
ss - (00-59).

: "sample_log", "txt".

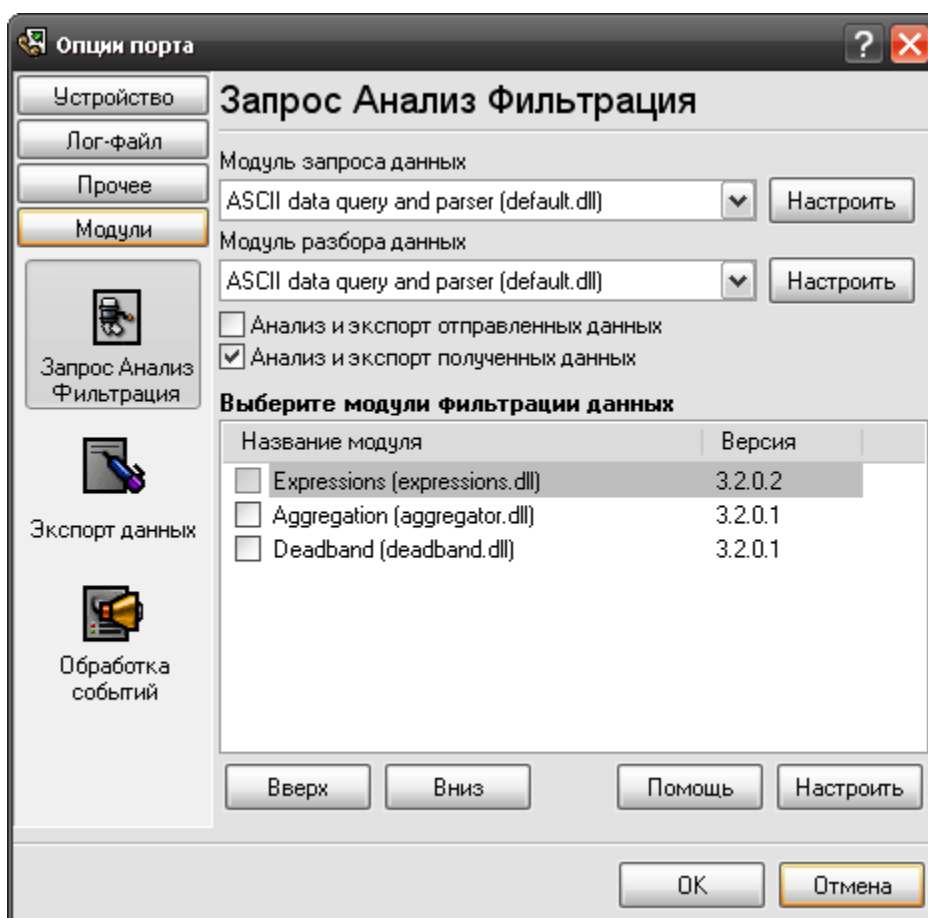
: = sample_log_, = txt ( !).
HHDDMMYYYY.
```

4.4.4.2

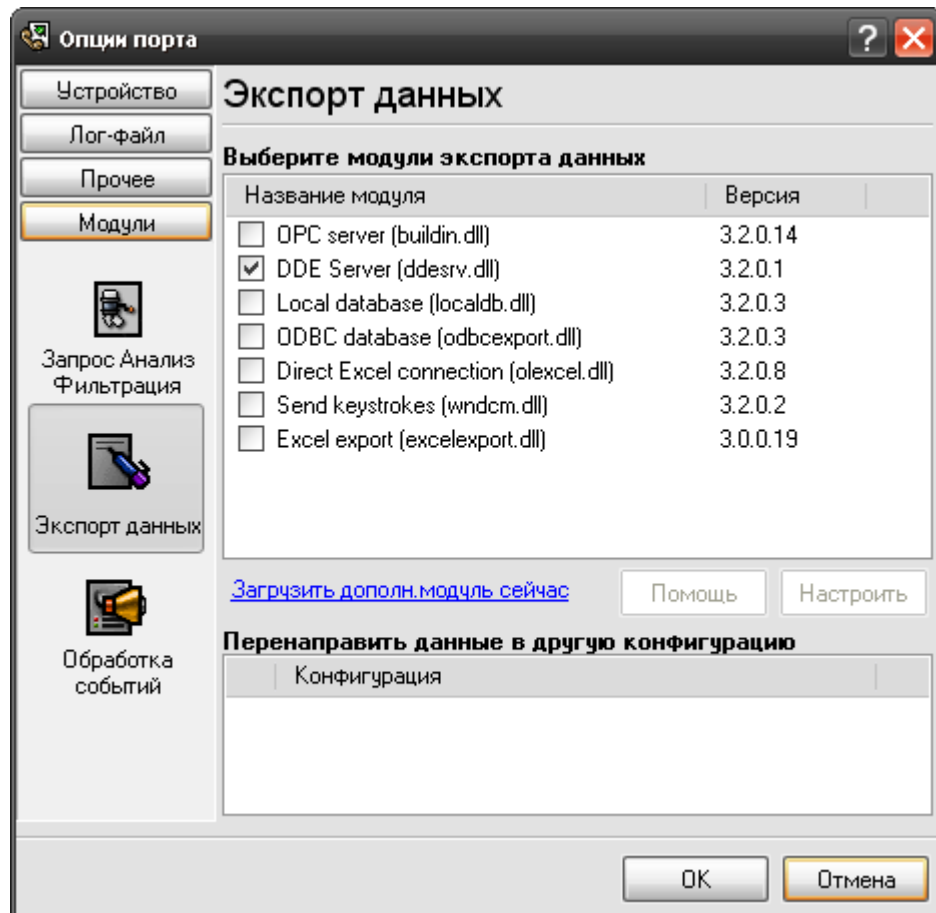
(.1).
Microsoft Office (, Microsoft Word), Advanced TCP/IP Data Logger



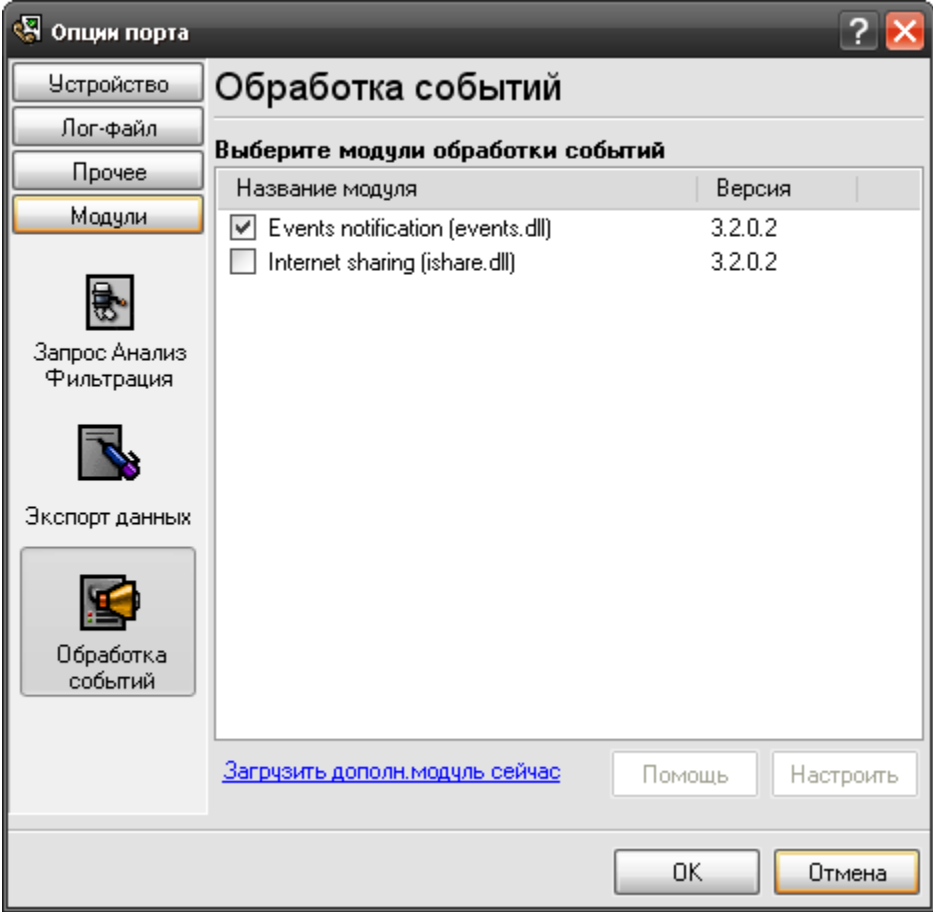
- (,) ; - , ;
- - ;
- - Advanced TCP/IP Data Logger : "Keystrokes", ; " DDE- ", Dynamic Data Exchange, ODBC
- Database - ;
- (.12) - Advanced TCP/IP Data Logger. - , (, " " " "),



.10



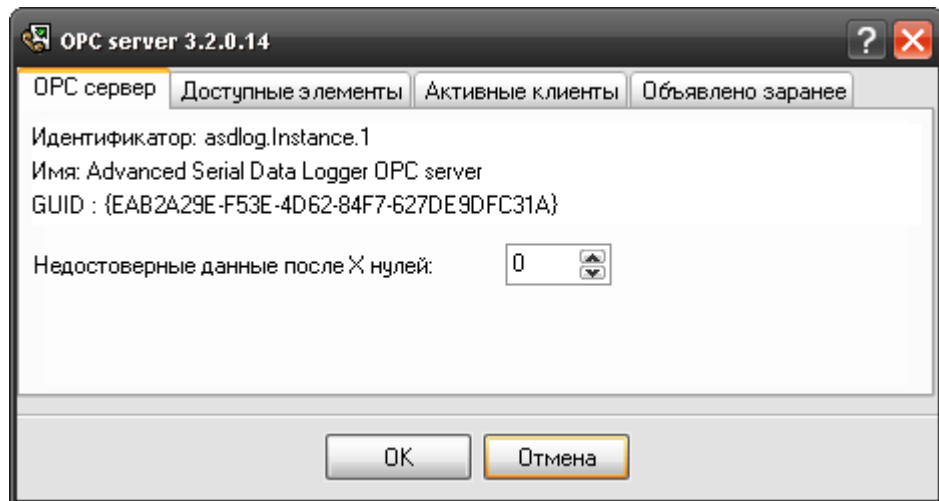
.11



.12

4.4.5.2 OPC

Advanced TCP/IP Data Logger OPC OPC. Advanced
TCP/IP Data Logger OPC
(.1).
Redistributable OPC OPC Core Components
www.opcfoundation.org ()

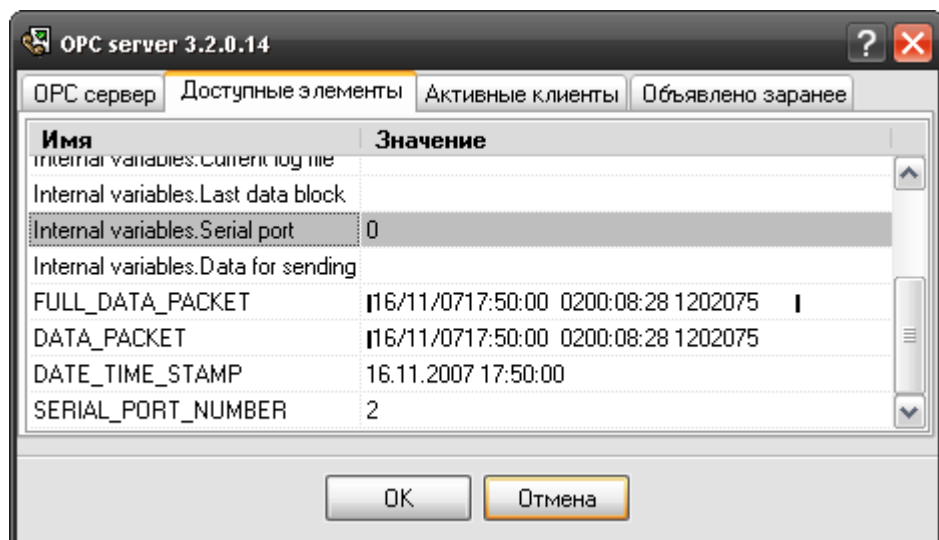


.1 OPC

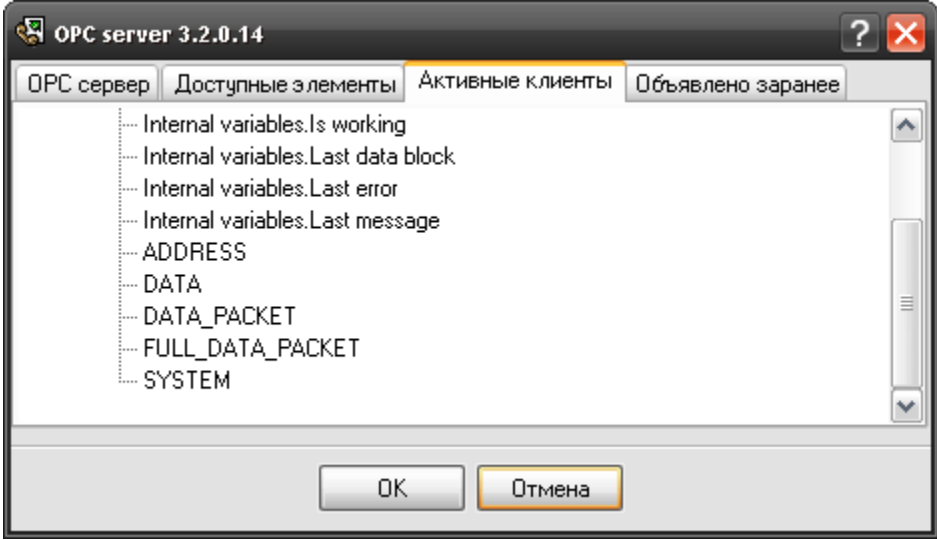
Advanced TCP/IP Data Logger,

OPC (.2).

OPC



.2 OPC



.3.

Advanced TCP/IP Data Logger

"

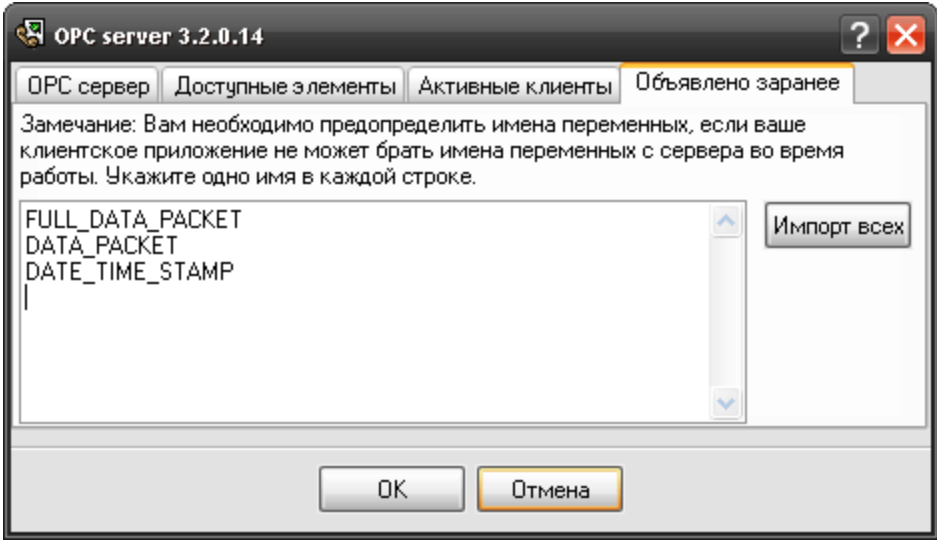
". Advanced TCP/IP Data Logger

OPC

(.4).

OPC

OPC



.4.

Advanced TCP/IP Data Logger

4.8 Windows NT/2000/XP/Vista

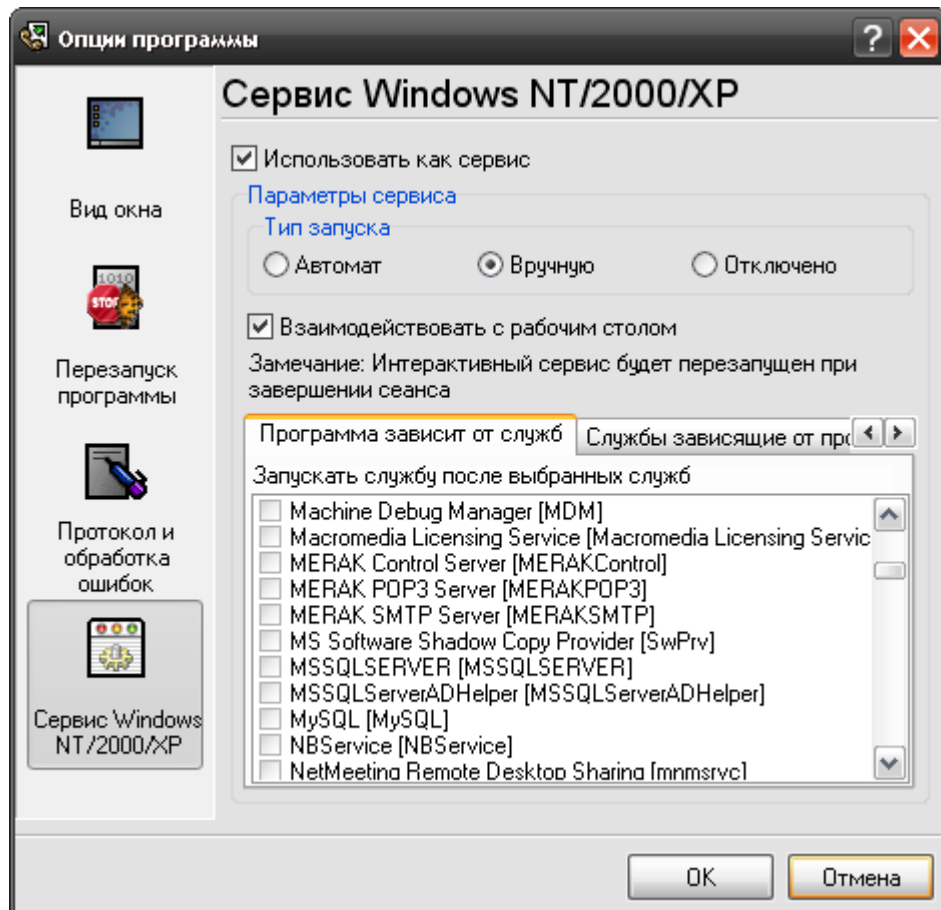
4.8.1

Windows NT/2000/XP :

- Windows NT 4.0;
- (Windows
- 2000);
- Windows 2000 (
-);
- - (

: (, ' , , ,)

Windows NT/2000/XP" (.1). " ' " /



.1

1.

2.

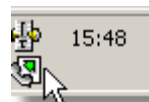
3.

"

"

, . . Windows

(.2).



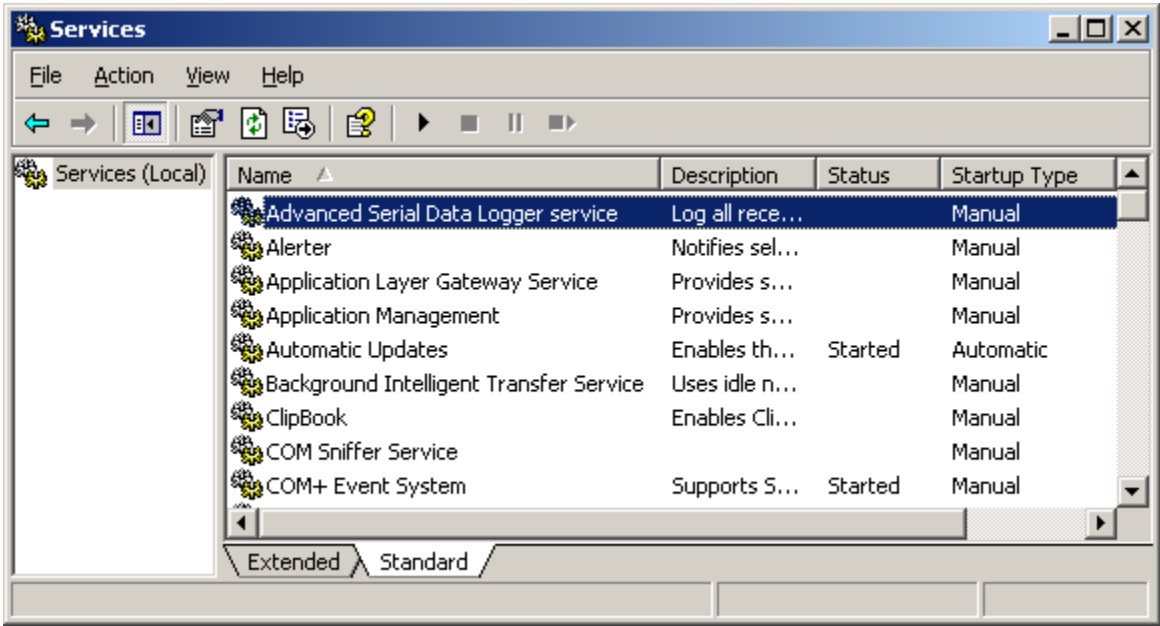
.2

COM-

Advanced TCP/IP Data Logger

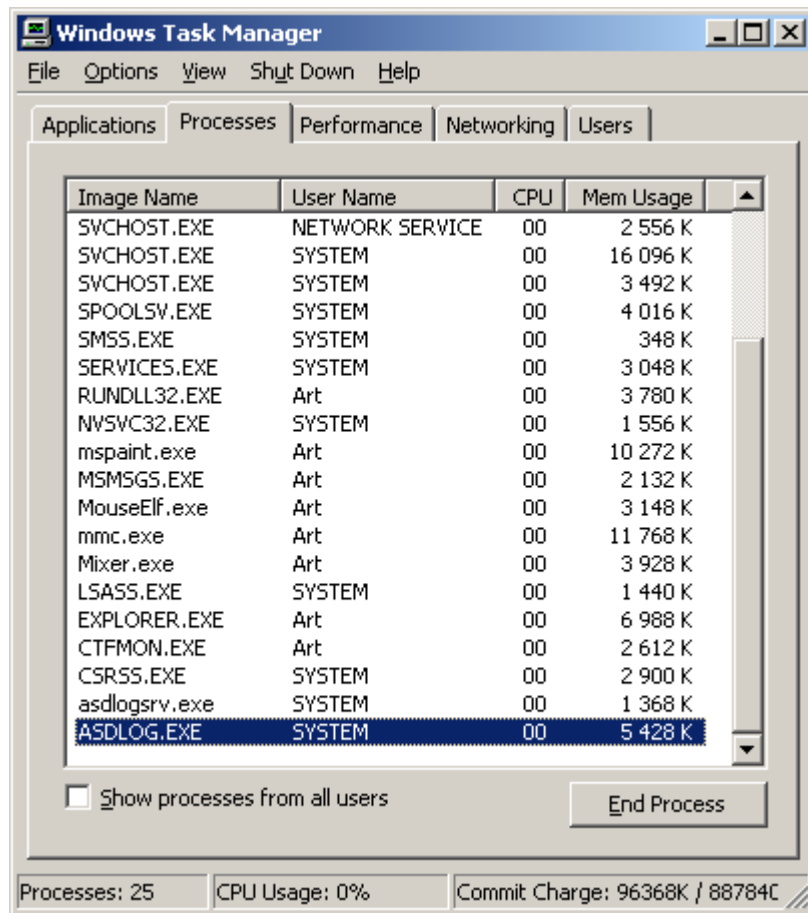
" (.1).

(.3).



.3 (Windows 2000)

(.4). Advanced TCP/IP Data Logger 2 - aipdlogsv.exe aipdlog.exe
Advanced TCP/IP Data Logger,
srvany.exe



.4

aipdlogsrv.exe

- /? - ;
- /I - ;
- /A - ;
- /D - ;
- /R -

4.8.2

Windows Vista

Windows Vista

4.10

Windows. / COM-

5 ?

5.1

Softlce -

support@aggsoft.ru.

5.2

(FAQ)

: COM- ?
 : ' - ().
 DOS , .
 : ?
 : , (DOS
 DOS).
 COM
 : 9
 ?
 : , Windows
 : : DB25 DB9?
 :
 : DB25 - COM2, DB9 - COM1
 : - ?
 : .

RXD	<-->	TXD
TXD	<-->	RXD
GND	<-->	GND

