

GPS Tracker Data Logger

1 **1**

1 GPS Tracker Data Logger 1

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2 **3**

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3 **5**

1 5

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4 **6**

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5 **11**

1 11

TCP/IP 11

2 18

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..... 32

OPC 36

6 40

..... 40

Windows 2000

Windows Vista

6

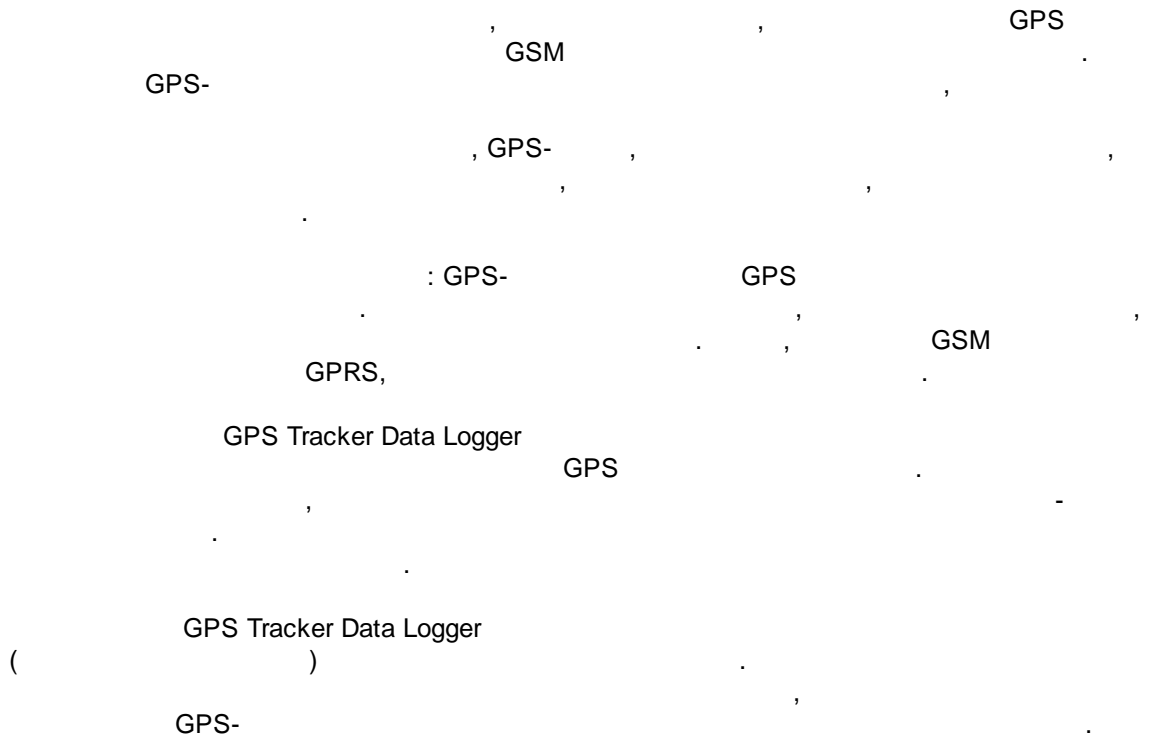
?

49

1

1

1.1 GPS Tracker Data Logger



GPS Tracker Data Logger?

- GPS
- GPS Tracker Data Logger:
- ; GPS
 - ASCII ;
 - GPS Tracker Data Logger GPS
 - ;
 - (, . .);
 - ();
 - ODBC- (MS SQL, MySQL, Oracle, MS Access, Interbase, Firebird);
 -

- SQL, MS SQL, MySQL, Oracle, Interbase, Firebird,
- GPS Tracker Data Logger DDE OPC
- Windows. GPS Tracker Data Logger
- Windows 2000
- Windows 2000+
- x32 x64
- !

GPS Tracker Data Logger

-
-

: <http://www.aggsoft.ru/>
: <http://www.aggsoft.ru/gps-tracker-data-logger/>

1.2

ASCII - ASCII -
Windows
ASCII. ASCII *.TXT (
README.TXT).
Binary File - ASCII (0 255).

Bytes () -

Bit () -
8

Cable () -

Internet () -

TCP/IP

PC () -

Personal Computer ().

Ports () -

Protocol () -

(Log file) -

(. log) —

2

2.1

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1. GPS Tracker Data Logger -

2.

3. GPS Tracker Data Logger ,

4.

5. GPS Tracker Data Logger
sales@aggsoft.ru

6. GPS Tracker Data Logger
GPS Tracker Data Logger

7. **GPS Tracker Data Logger** "AS IS".

8.

9. GPS Tracker Data Logger

10. -
GPS Tracker Data Logger
GPS Tracker Data Logger.

2.2

shareware-

5.

- 21 ;
- ;
- 100 ;

2.3

shareware-

3

Internet,

2.4

GPS Tracker Data Logger	support@aggsoft.ru
	support@aggsoft.ru
	sales@aggsoft.ru

3

3.1

- Windows 2000 Professional SP 4;
- Windows 2000 Server;
- Windows XP x86 x64;
- Windows 2003 Server x86 x64;
- Windows Vista () x86 x64.
- Windows 7 () x86 x64.

- Windows 2008 Server () x86 x64.
- Windows 8 () x86 x64.

3.2

GPS Tracker Data Logger.

, GPS Tracker Data Logger "\Programs Files\GPS
Tracker Data Logger"

GPS Tracker Data Logger

4

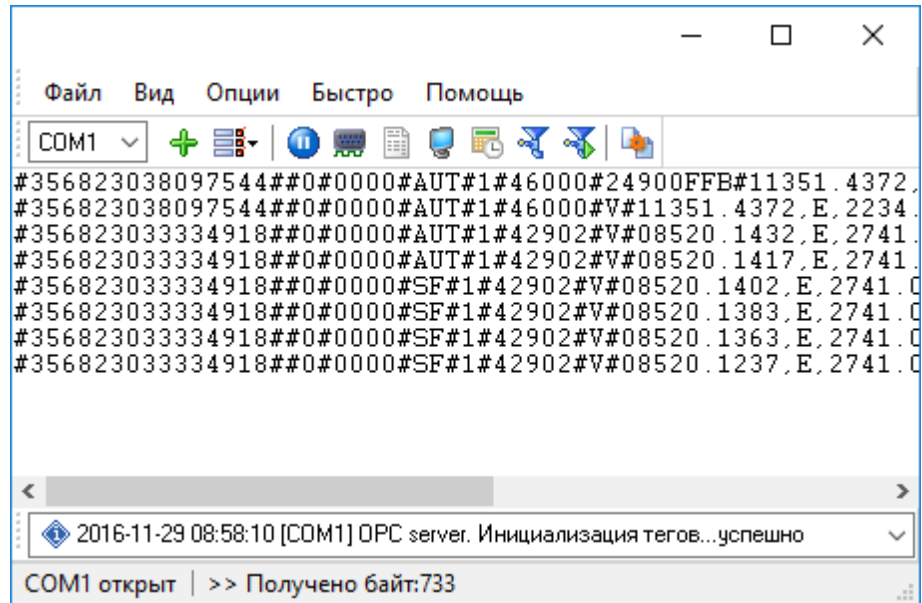
4.1

GPS Tracker Data Logger

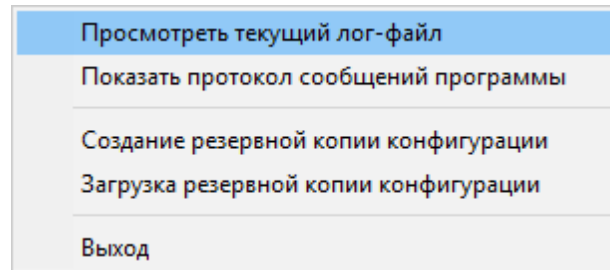
GPS Tracker Data Logger " "

(. 1.1.1),

1.1.2) 8 (" ..."), " " (



. 1.1.1.



. 1.1.2.

C:\. ,

1-2-3-4

1.

" " IP"

2.

" " (

3.

, 32

4. GPS Tracker Data Logger

GPS Tracker Data Logger

4.2

(NIC).

- GPS Tracker Data Logger IP (NIC),
GPS Tracker Data Logger IP
- GPS Tracker Data Logger DHCP, IP
- IP 0.0.0.0.

" [TCP/IP](#) ".

[26](#)

[29](#)

([.1.1.1](#)).

" [22](#) ",

GPS Tracker Data Logger

[40](#)

GPS Tracker Data Logger. GPS

Tracker Data Logger

(plug-ins),

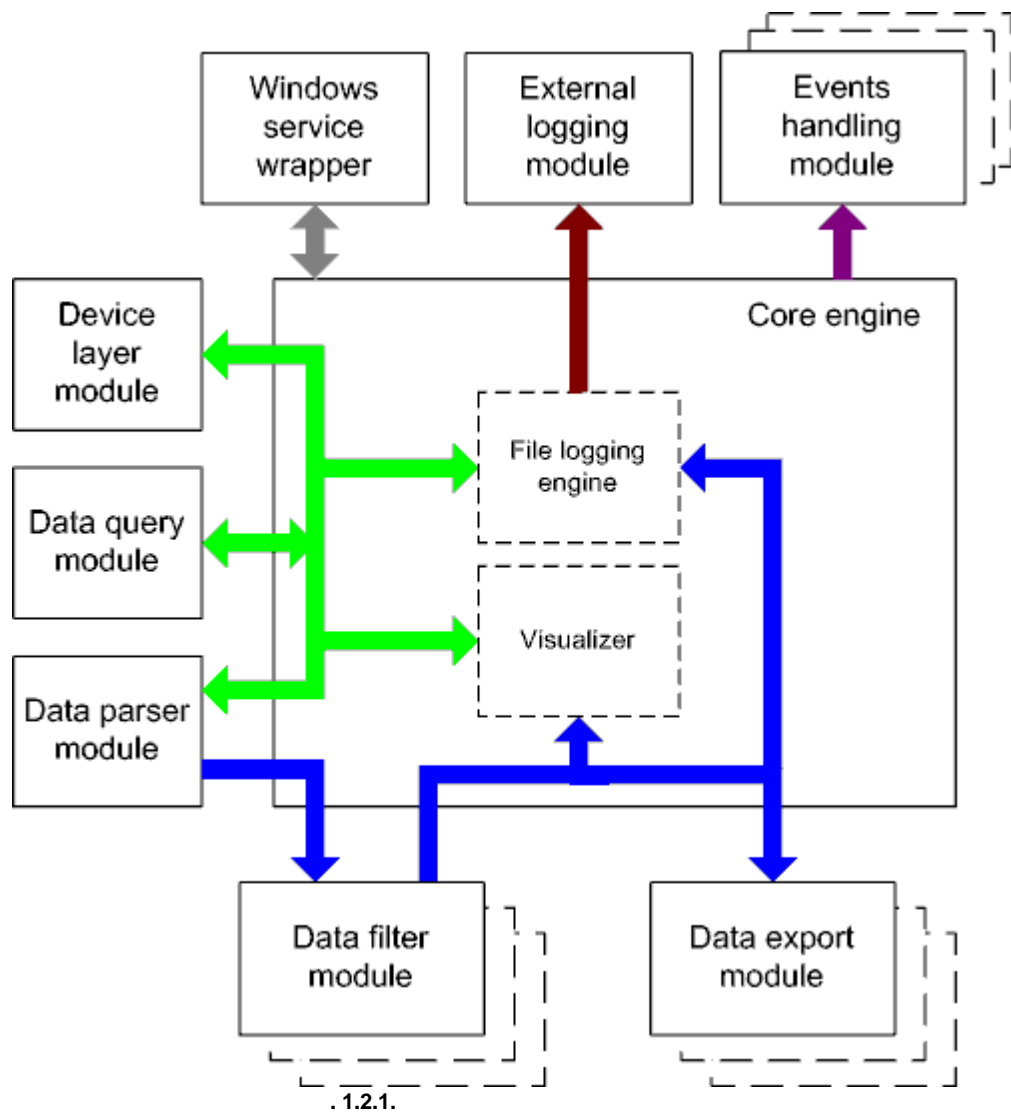
"

(

(. 1.1.1 6)

),

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

Windows.

4.5

1. -
 2. .
1. " " " " ,
 2. regedit.exe : Windows.
Windows x64
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\AGG Software\GPS Tracker Data
Logger

Windows x32
HKEY_LOCAL_MACHINE\SOFTWARE\AGG Software\GPS Tracker Data Logger

3. " " :
 Ctrl+S - " / " ;
 Ctrl+D - " / " ;
 Ctrl+P - log- ;
 Ctrl+L - ;
 Ctrl+R - Windows; ;
 Ctrl+E - ;
 Ctrl+M - ;

4. : -

5. INI

6. " " :

10

5

5.1

5.1.1 TCP/IP

UDP TCP

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

Messaging, UDP IP Instant

GPS Tracker Data Logger

TCP/IP

(TCP/IP) GPS Tracker Data Logger

1. IP
TCP/IP,
GPS Tracker Data Logger
(www.yourserver.com)
"Plant1"
IP
GPS Tracker Data Logger IP
"Plant1",
IP
IP

2. IP
GPS Tracker Data Logger
IP
GPS Tracker Data Logger
IP
IP

Microsoft Windows, TCP/ IP IP

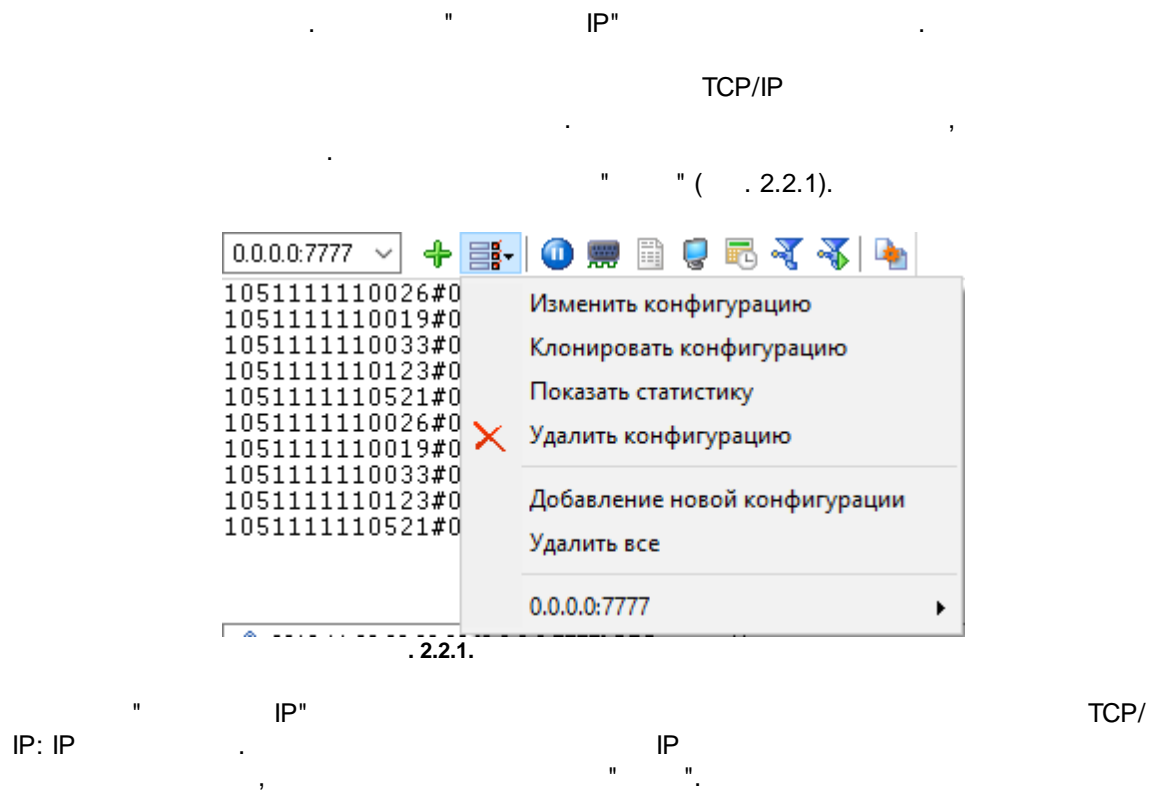
GPS Tracker Data Logger "OK"
TCP/IP.
IP GPS Tracker

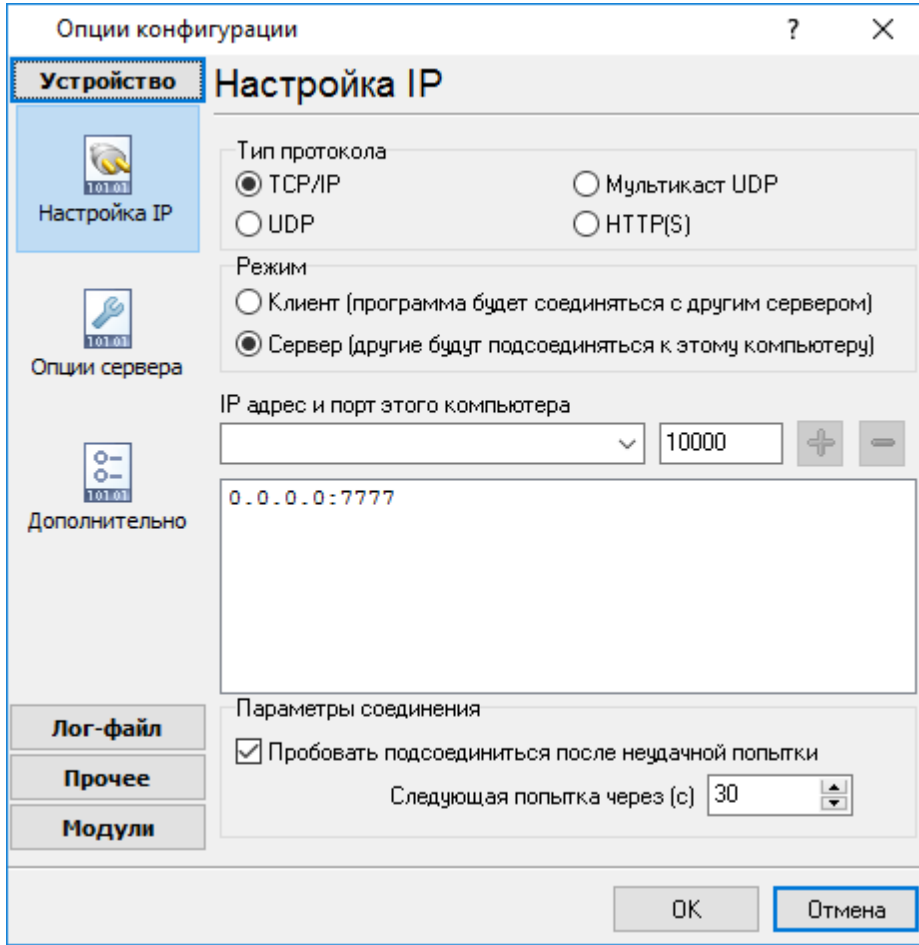
Data Logger

GPS Tracker Data Logger

(.1.1.1⁶).

(.1.1.1⁶) " ".
(.2.2.2).





. 2.2.2. TCP/IP

IP , , .

SMTp - 25, the telnet - 23, NNTP -

119, . . . , Windows (Windows NT

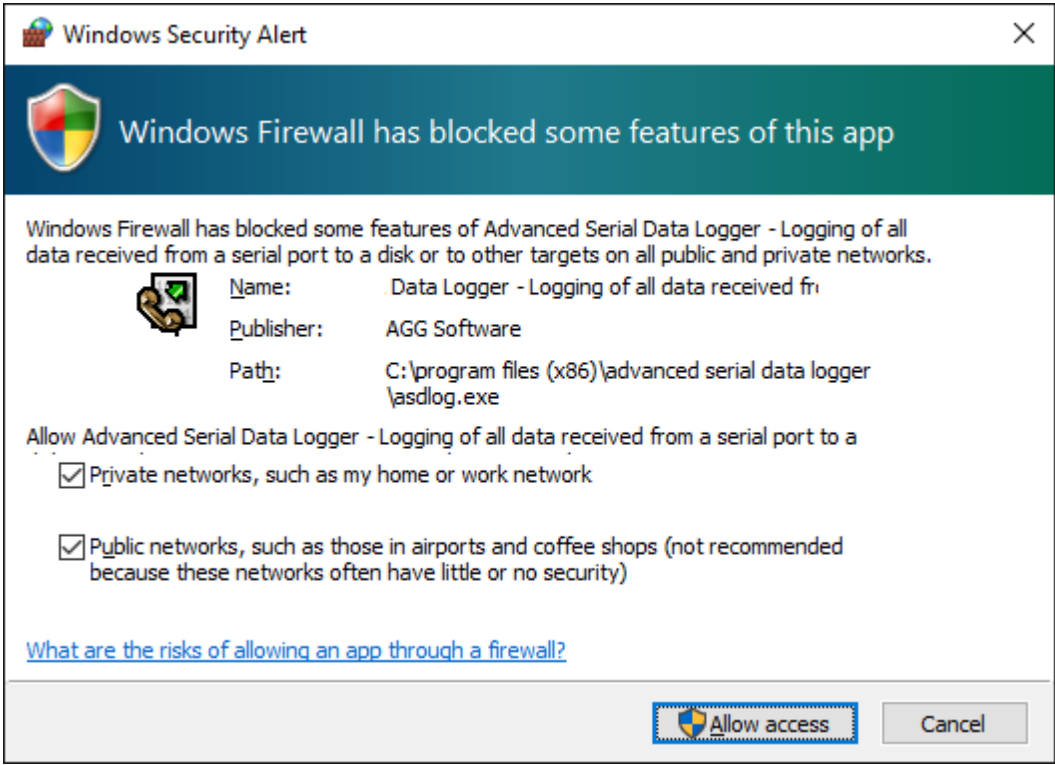
SERVICES, WinNT\SYSTEM32\DRIVERS\ETC). SERVICES -

GPS Tracker Data Logger ()

(,) .

IP (socket).

, , IP
 , ,
 , , IP
 " " IP
 (IP)
) ()
 " , GPS Tracker Data Logger
 N , " (c)"
IP
 , IP
 , IP
 GPS Tracker Data Logger
 " " IP
(firewall)
 Microsoft Windows XP SP2 , GPS Tracker Data
 . Windows Firewall, ,
 Windows Firewall ,
 (Security Alert).



. 2.2.3.

-
-
-

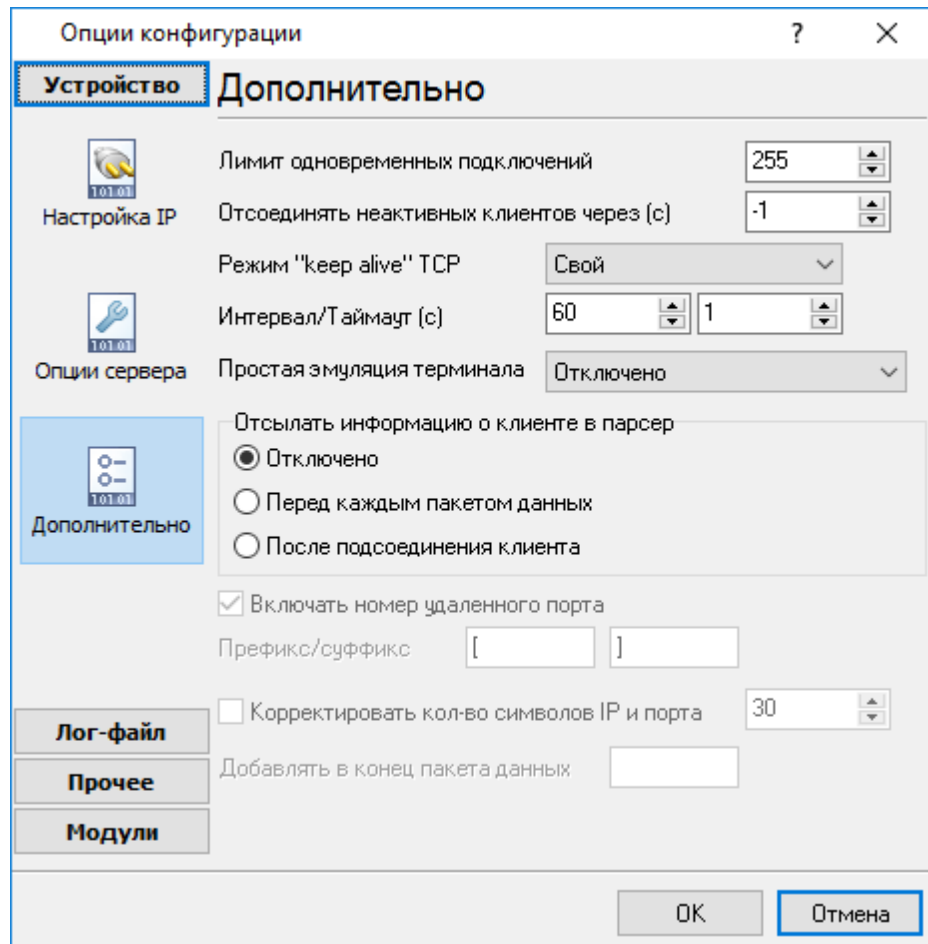
(. 2.2.4).

TCP/IP

"TCP/IP ":

() -

"-1",



. 2.2.4.

TCP/IP

keep-alive TCP () -

keep-alive,

Windows.

keep-alive

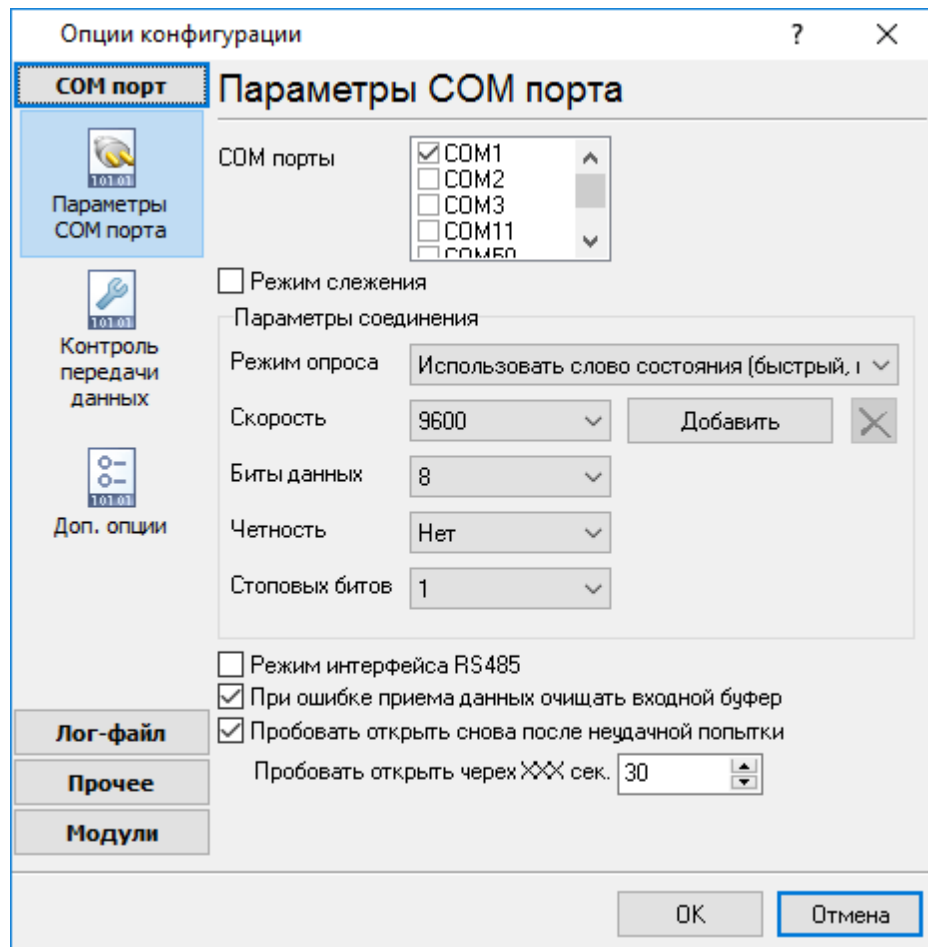
(TCP

UDP):

5.2

5.2.1

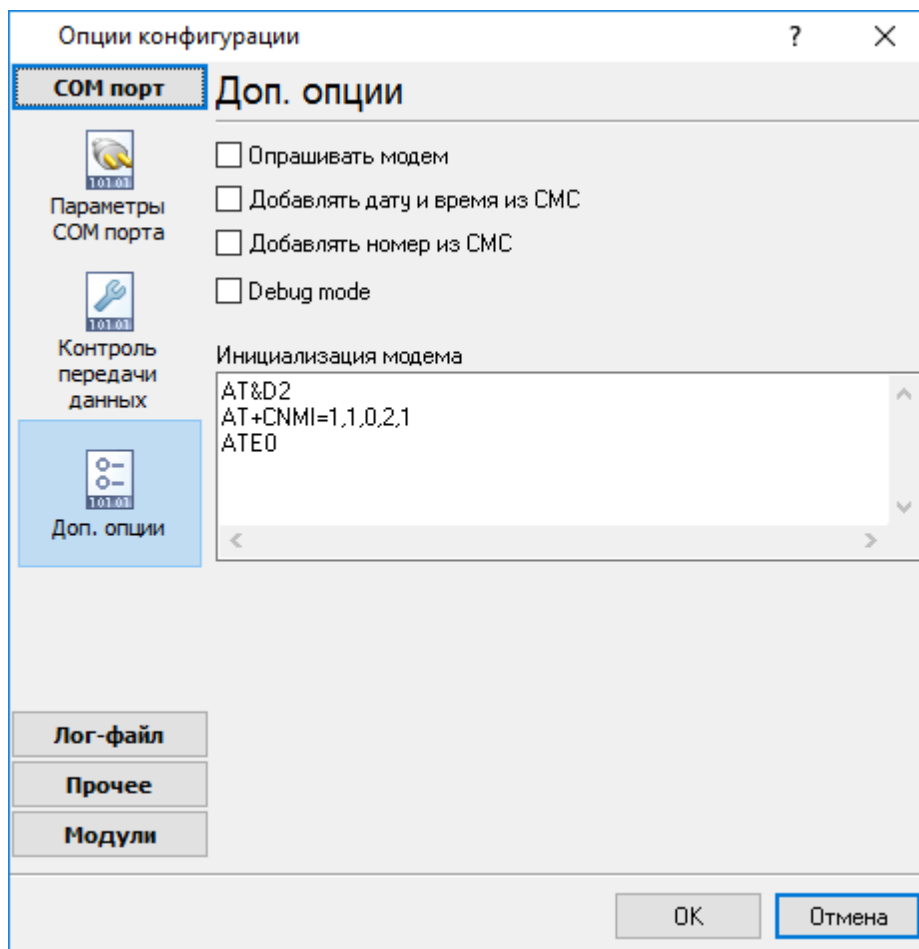
- 1. GSM- () GSM
- 2. AT
- 3. COM (Ethernet, USB, Bluetooth) (. 2.9.1) COM



. 2.9.1

COM-

« . » (. 2.9.2).



. 2.9.2

3
GSM

AT

AT&D2
AT+CNMI=1,1,0,2,1
ATE0

Siemens: AT+CNMI=1,1,0,2,1
WaveCom: AT+CNMI=2,1,0,1,1
SonyEricsson: AT+CNMI=3,1,0,1,0
Motorola USB modem: AT+CNMI=3,1,0,0,0

SMS

1. GSM.

2. GSM.

ATZ (),

ATI (),

ATE1 (-).

3. SMS- ,

SMS

AT+CMGF?

+CMGF: 0,

SMS-PDU,

AT+CMGF=0

OK.

4. SMS- SIM-

AT+CPMS?

+CMPS: "SM",0,20, "SM",0,20, "SM",0,20.

(+CMPS: "ME",0,20, "SM",0,20, "ME",0,20),

AT+CPMS="SM", "SM", "SM"

5. AT&W.

6. ATZ

SMS-), AT+CMGL=4 (OK

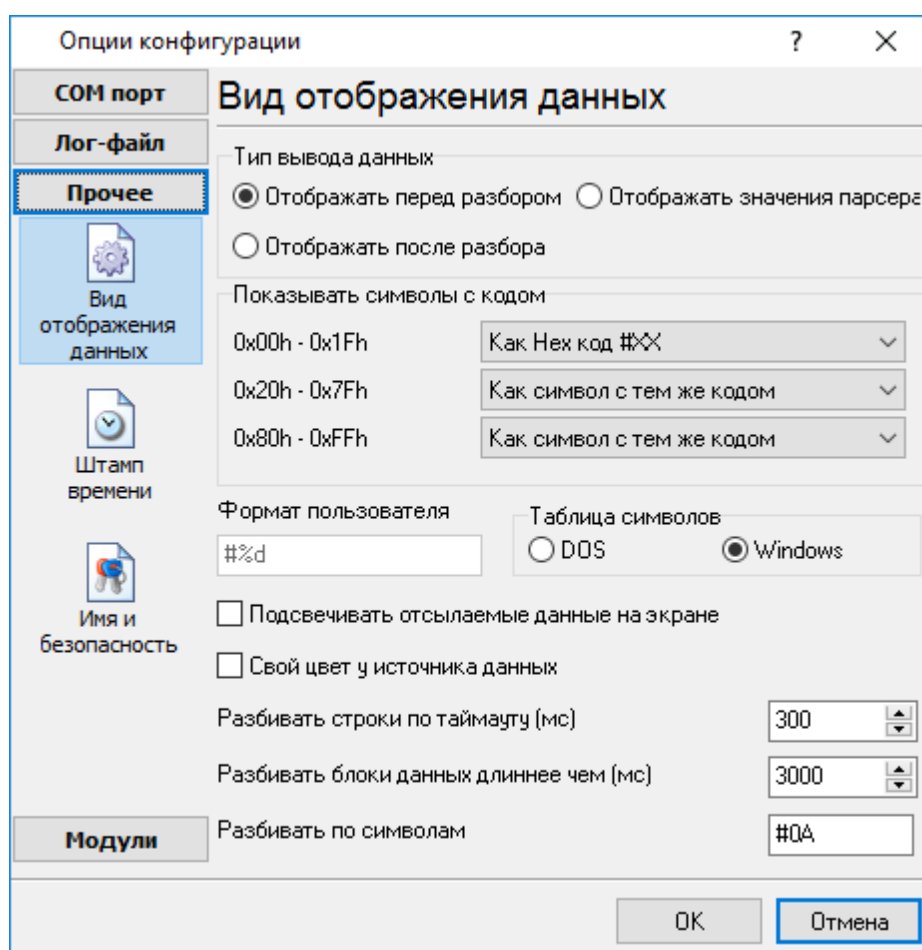
5.3

5.3.1

3.1.1): ([1.1.1.1](#)) 2 (.

1.

2.



. 3.1.1.

" - " (. 3.1.1)

Hex-

%d

, %x -

(OEM).

: Windows DOS

0,

0,

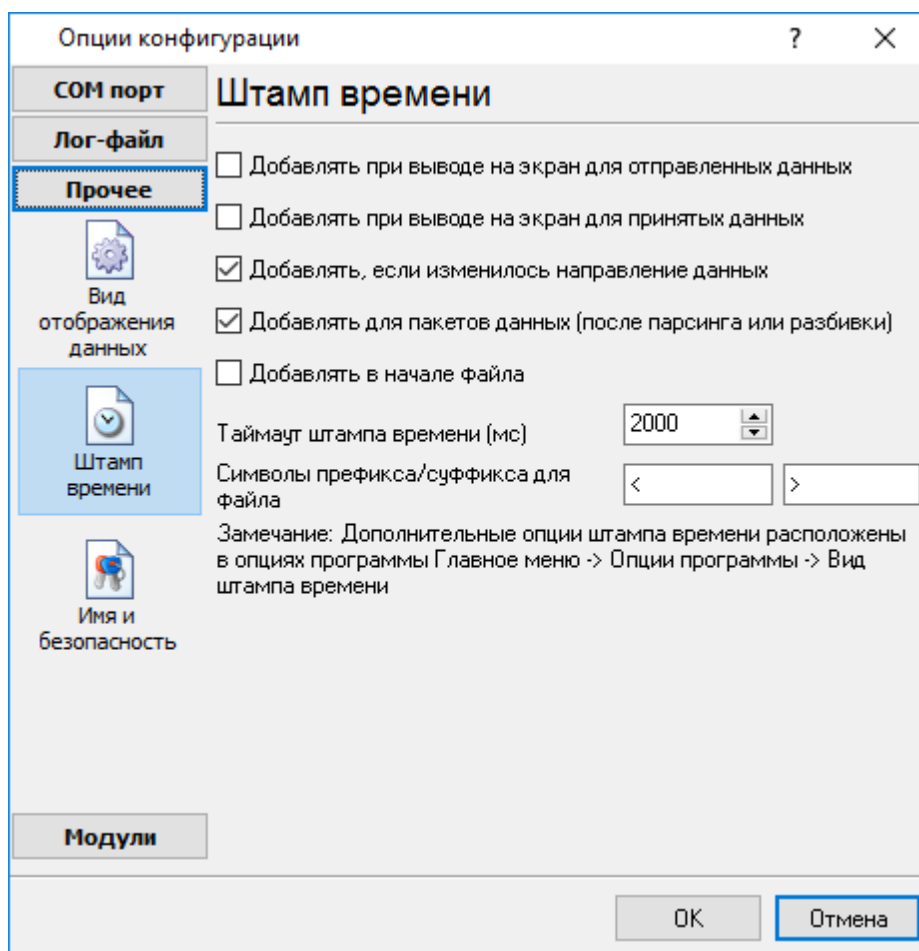
. 3.1.1

5.3.2

(. 3.2.1)

()

 42.



. 3.2.1.

:>#0D#0A

5.3.3

(. 3.3.1) :

-

"

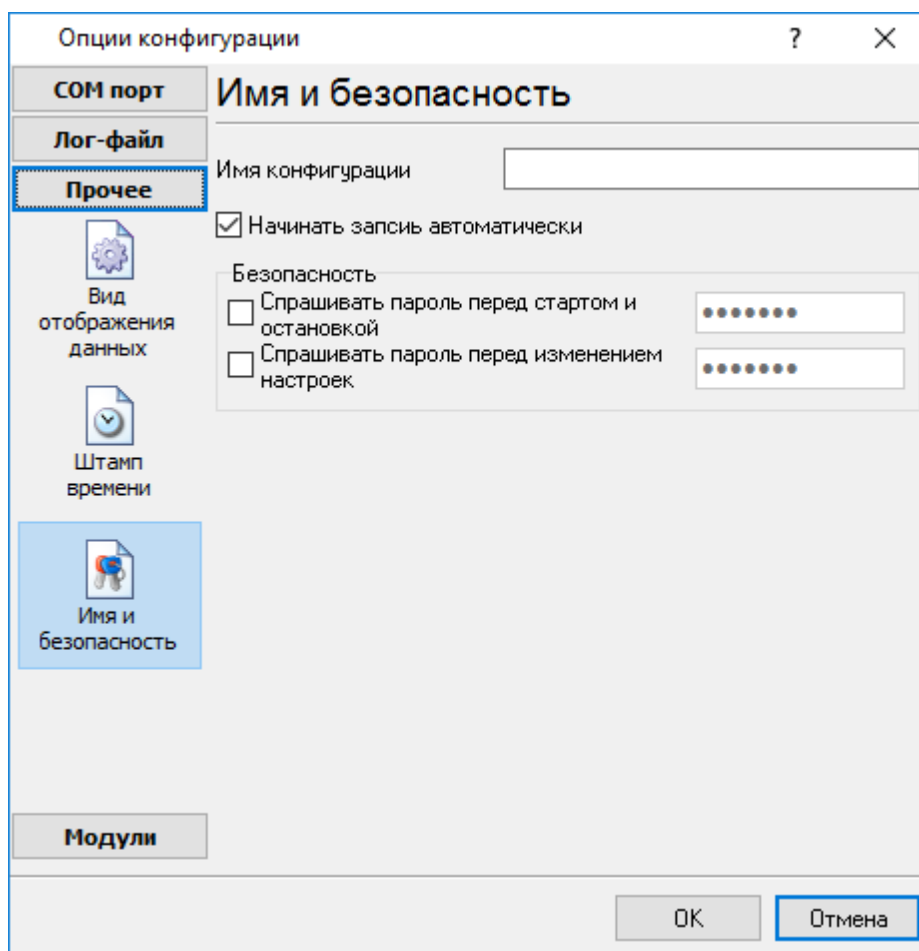
"

48

"

/

"

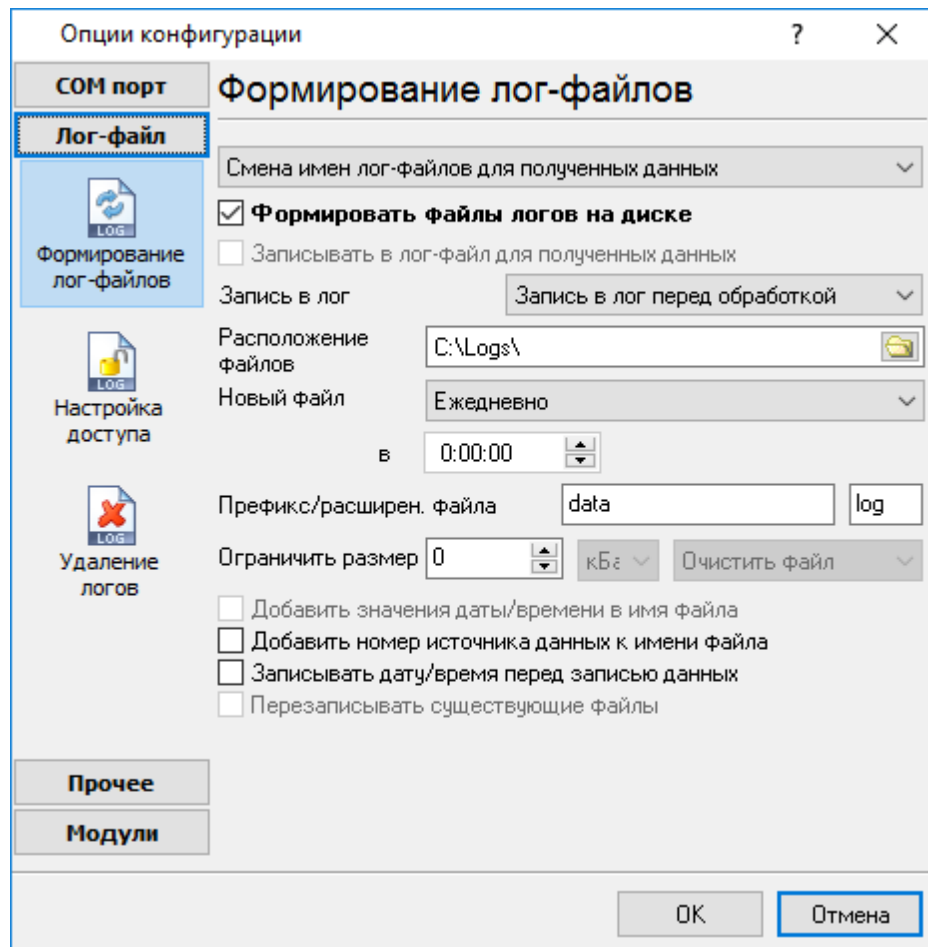


. 3.3.1.

5.4 -

5.4.1 -

- (). (. 4.1.1).



. 4.1.1.

GPS Tracker Data Logger

"sample",

"log ",

"", "sampleYYYYMMDD.
log". 21- 2003 - "sample20030321.log".

• ().
" " :

1. - , .
DDMMYYYY, DD - , MM -
YYYY - ;

2. - .
MMYYYY;
3. -
YYYYMMDD;

4. -
: sample00000001.log.
5. - ;

6. - .
WWYYYY, WW -
YYYY -

7. - ,
8. - .
HHDDMMYYYY;

9. - -
- -

- 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 7 /

, COM1-

sample20030321.log.

/

4 7.

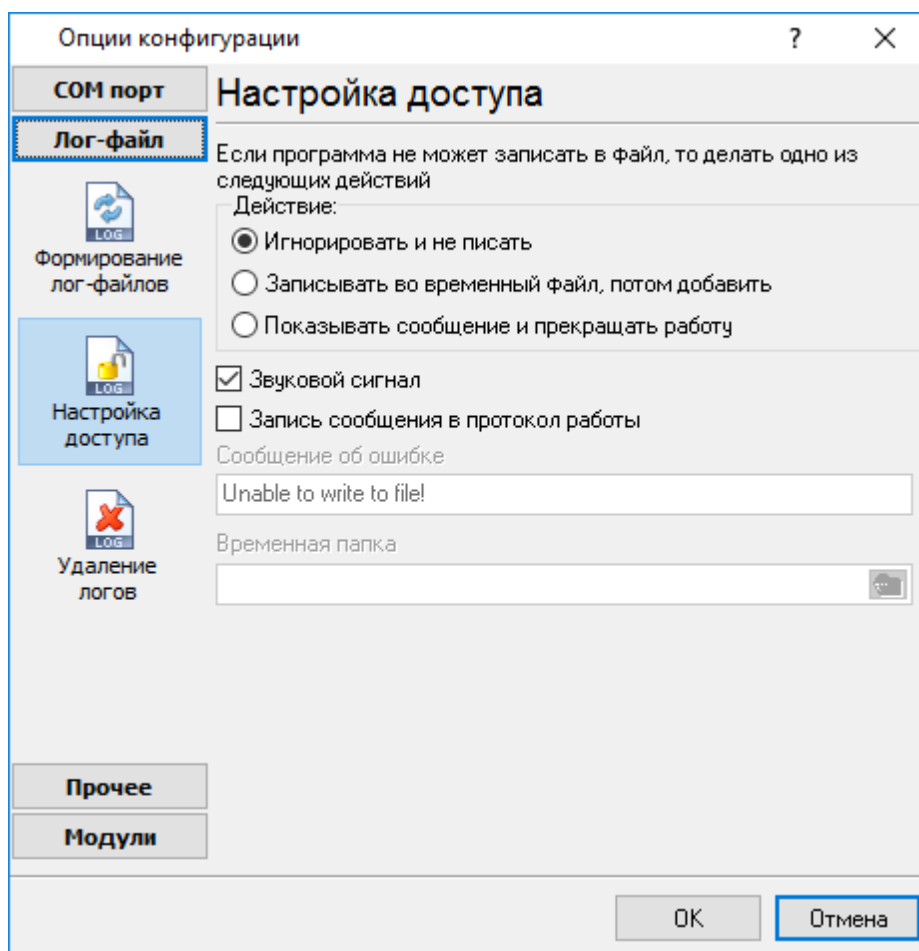
"

1.
2.
3. ( ) -
4. ( ).

```

5.4.2

Microsoft Office (, Microsoft Word),
GPS Tracker Data Logger



. 4.2.1.

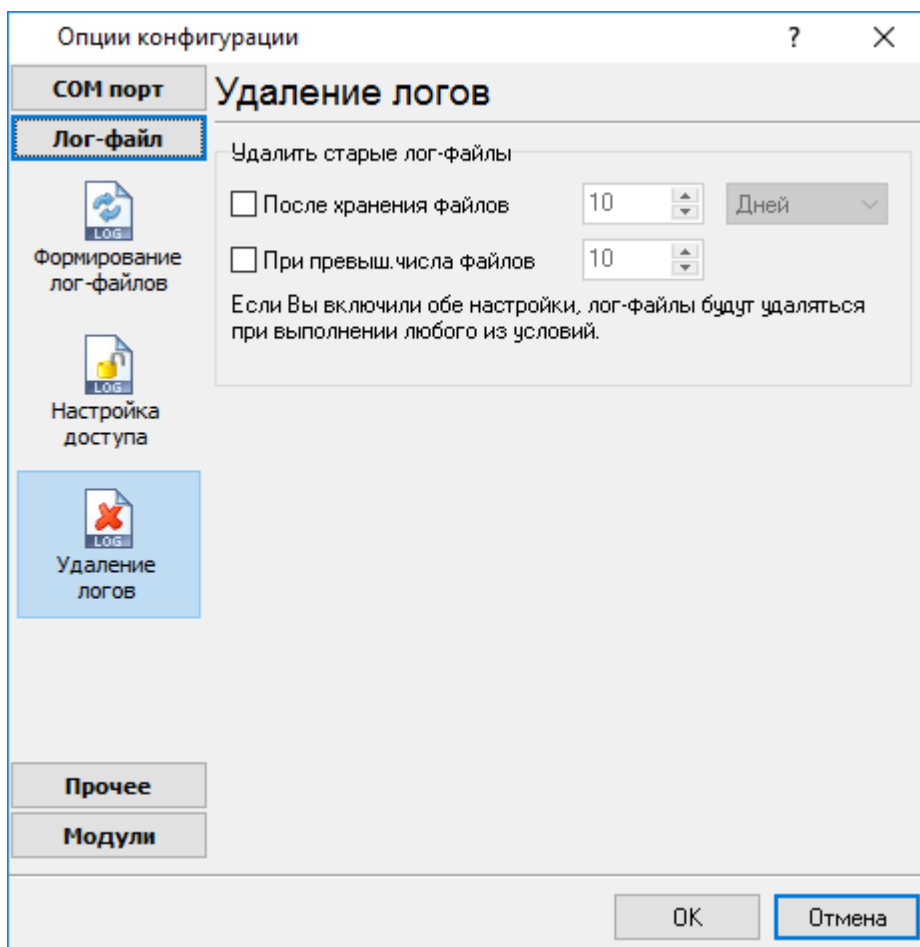
GPS Tracker Data Logger

(. 4.2.1),

-
-
-

5.4.3

(. 4.3.1).



. 4.3.1.

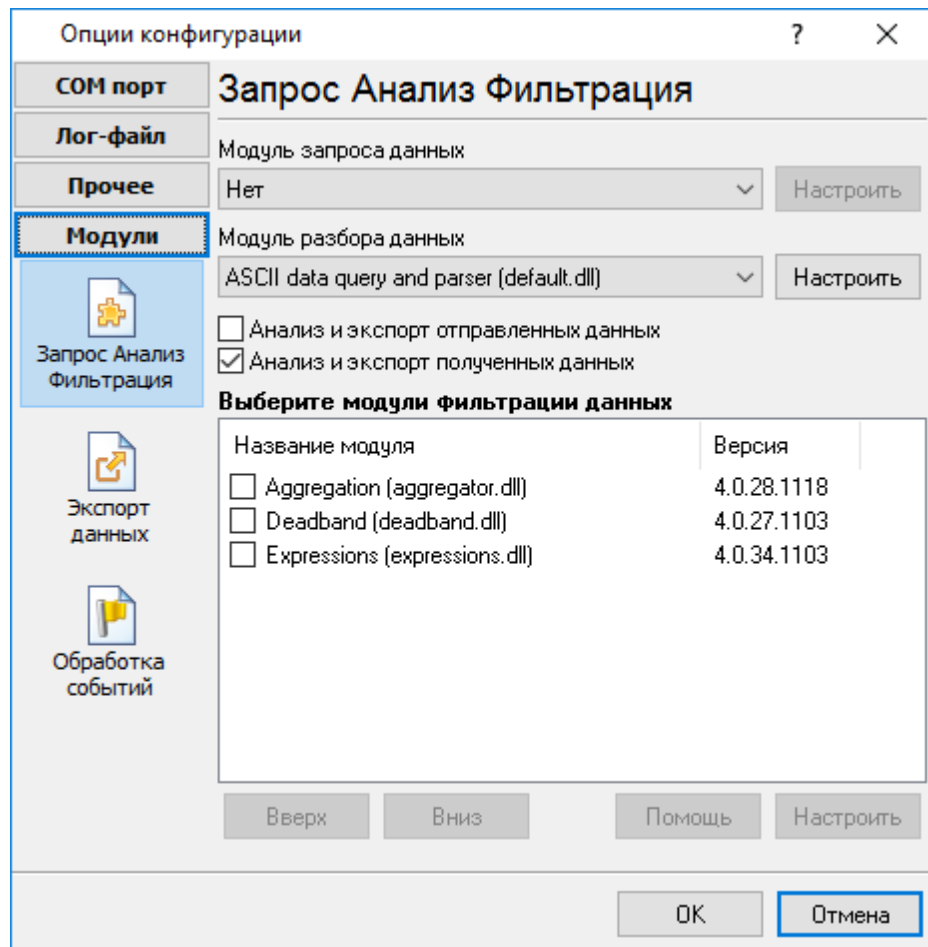
5.5

5.5.1

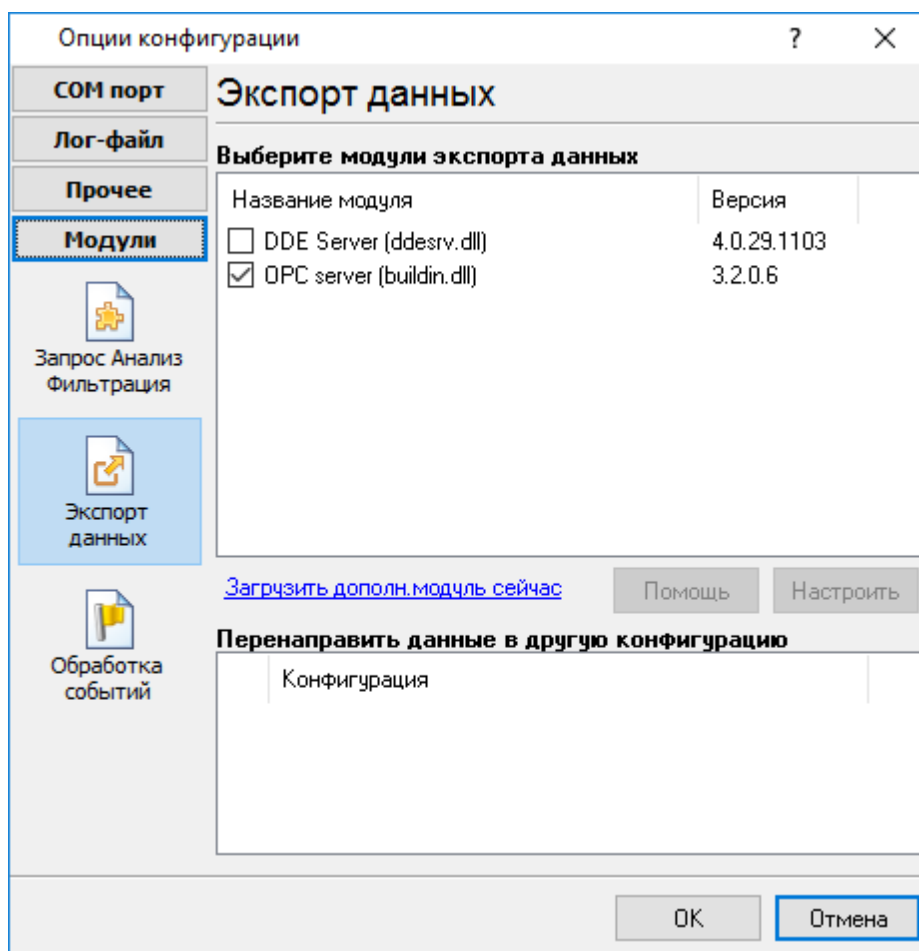
, (,) , " " (. 5.1.1 - 5.1.3).

GPS Tracker Data Logger

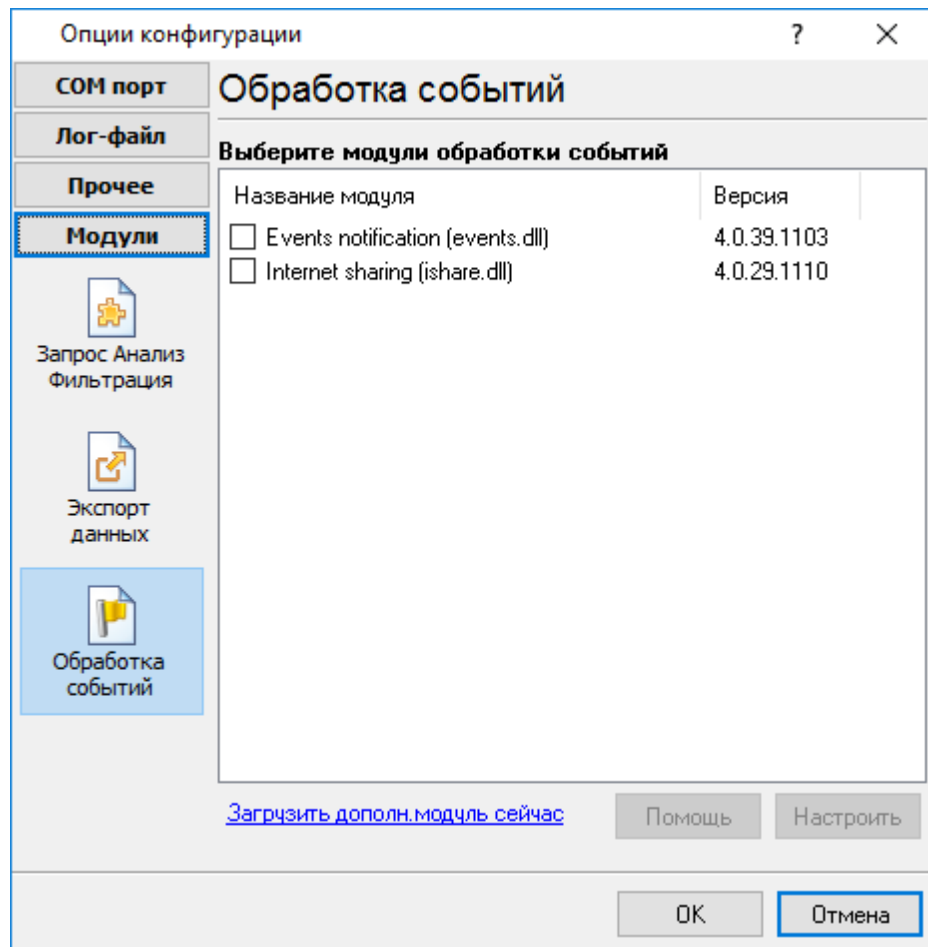
- - ; (, ,) - () , ;
- - ;
- - ;
- - , Excel ;
- (. 5.1.3) - GPS Tracker Data Logger. , " - " " , "



. 5.1.1.



. 5.1.2.

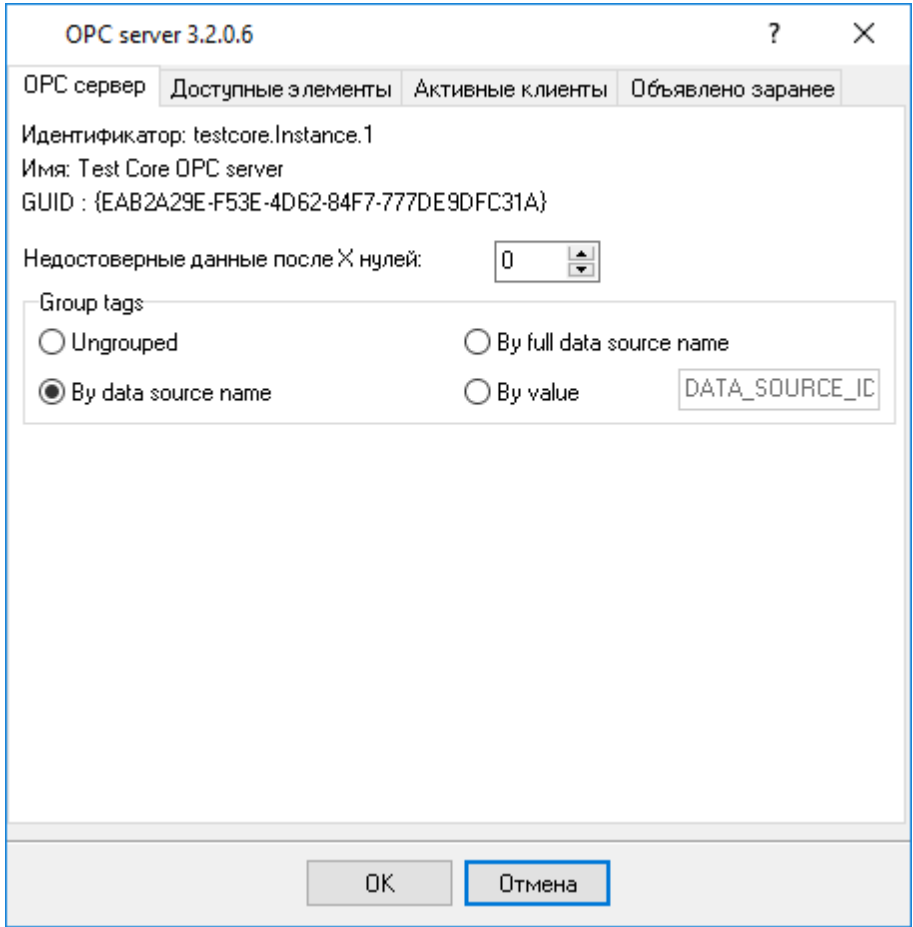


. 5.1.3.

"OK".

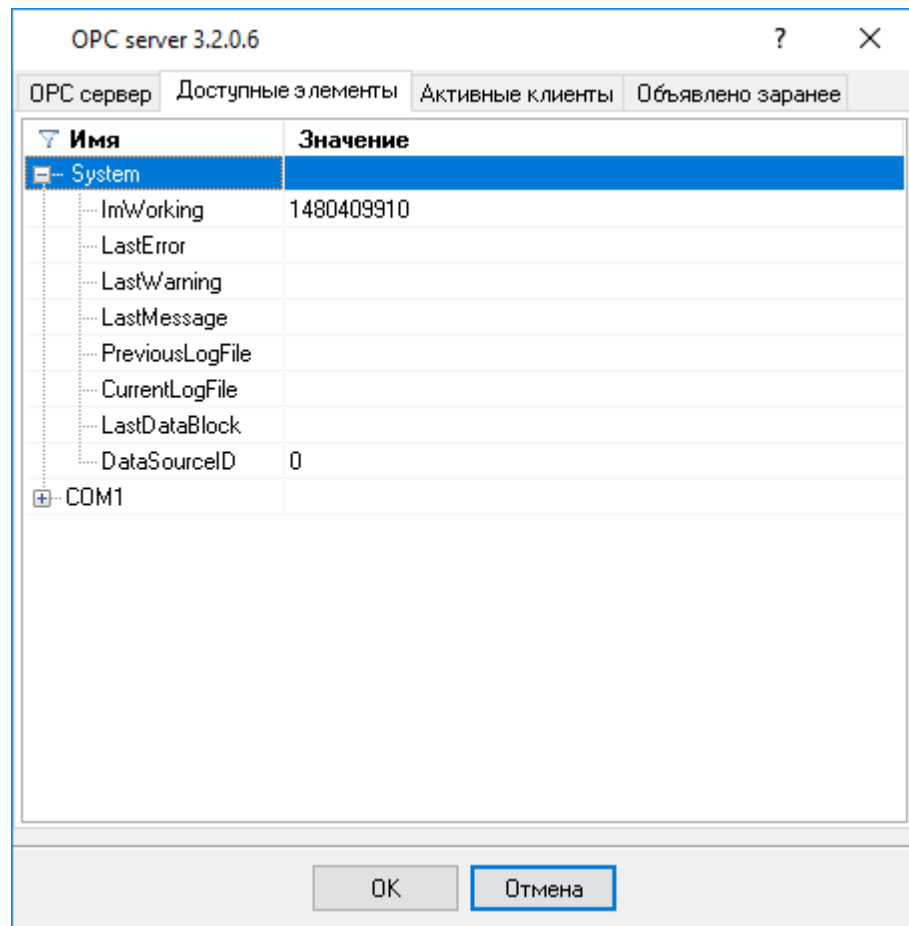
5.5.2 OPC

GPS Tracker Data Logger, OPC, OPC, GPS Tracker Data Logger
(. 5.2.1). OPC
OPC Core Components Redistributable www.opcfoundation.org
OPC OPC



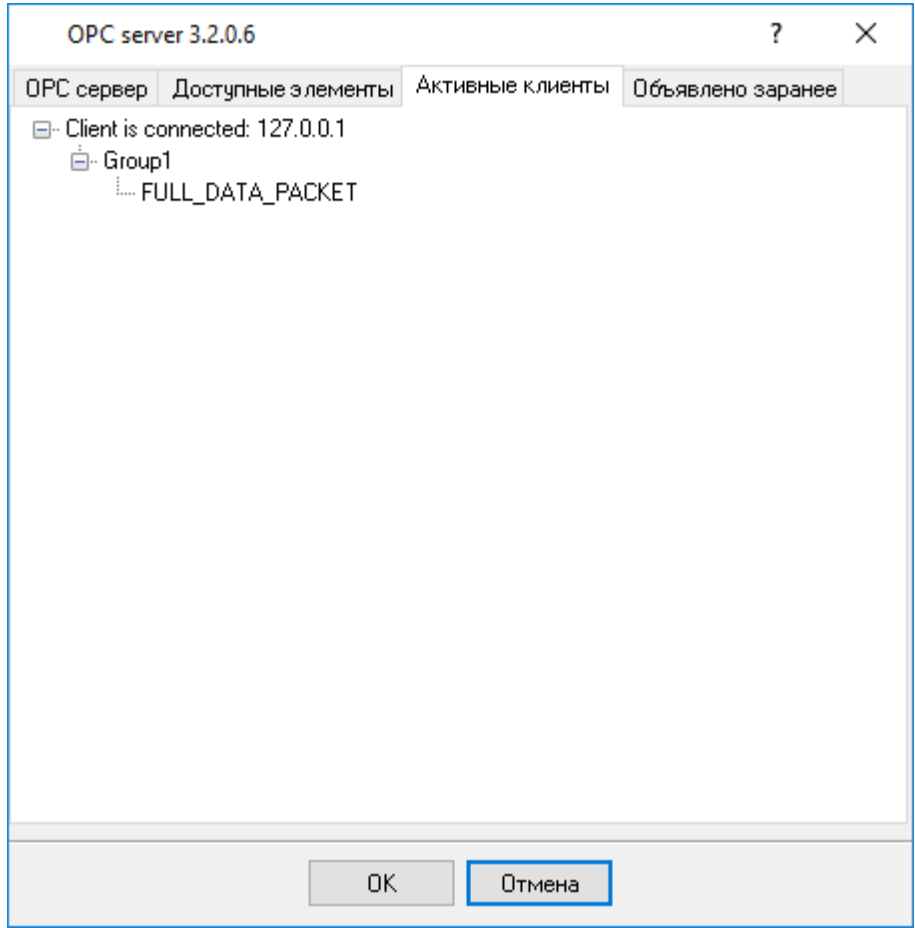
. 5.2.1. OPC

GPS Tracker Data Logger, OPC, OPC (.2). OPC



. 5.2.2.

OPC



. 5.2.3.

GPS Tracker Data Logger

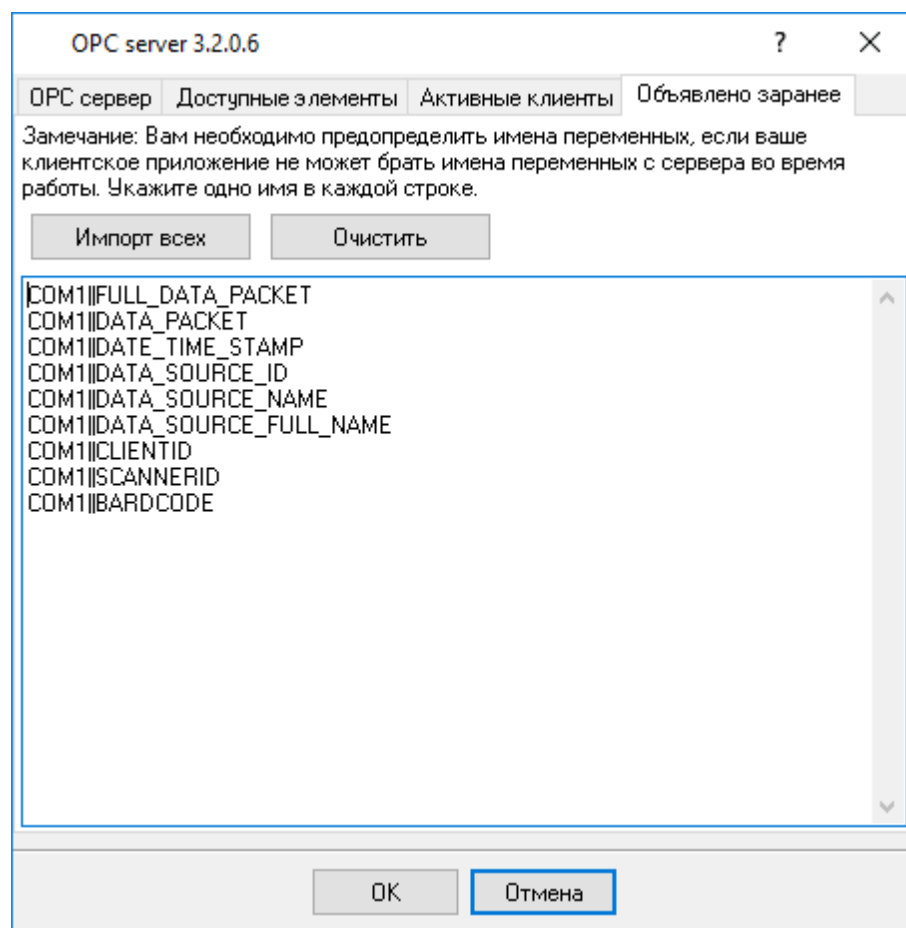
"

". GPS Tracker Data Logger

OPC

(.4).

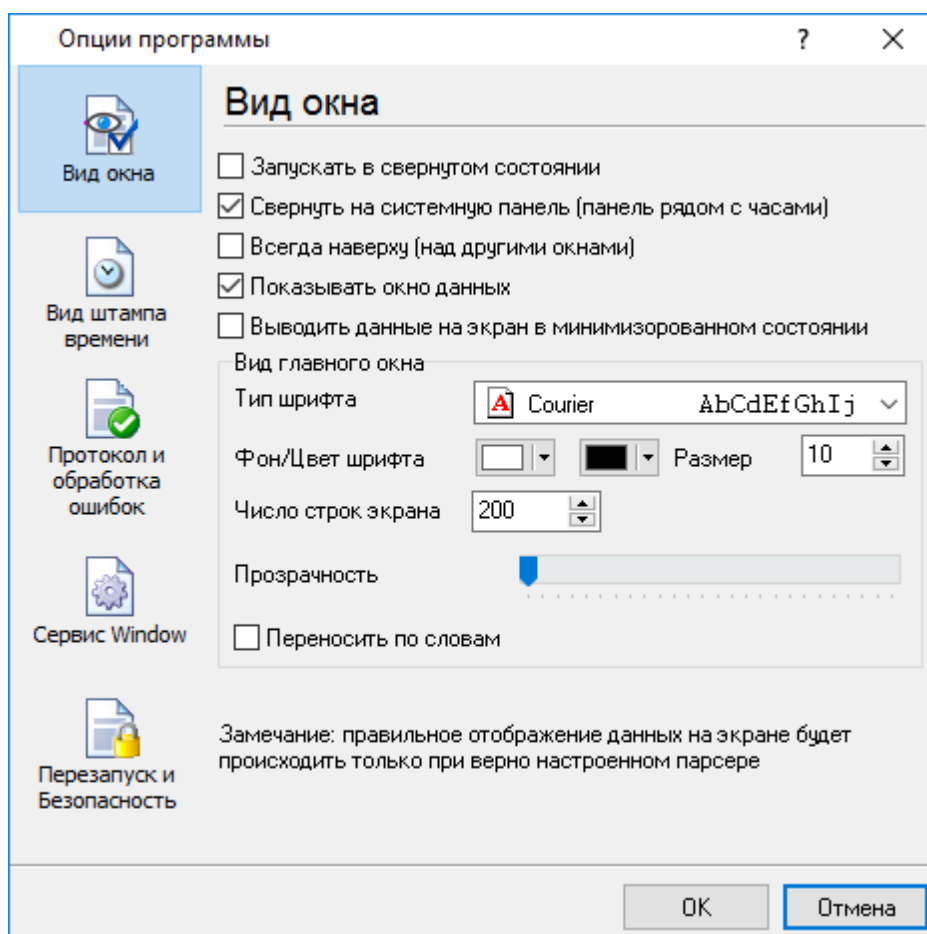
OPC
OPC



. 5.2.4.

5.6

5.6.1

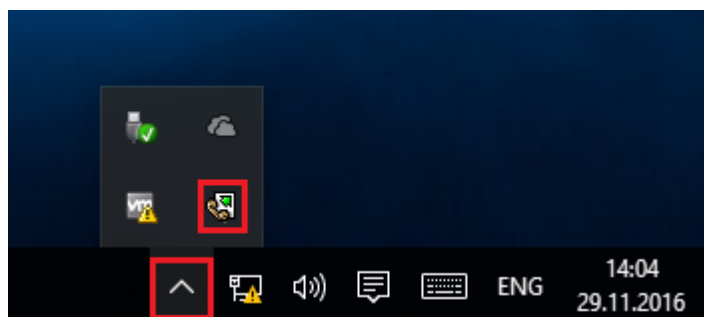


. 6.1.1.

" (. 6.1.1) :

- GPS Tracker Data Logger

(. 6.1.2) ;



. 6.1.2.

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(. 6.1.2) -

GPS Tracker Data Logger

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);

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;

- Windows 2000

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-

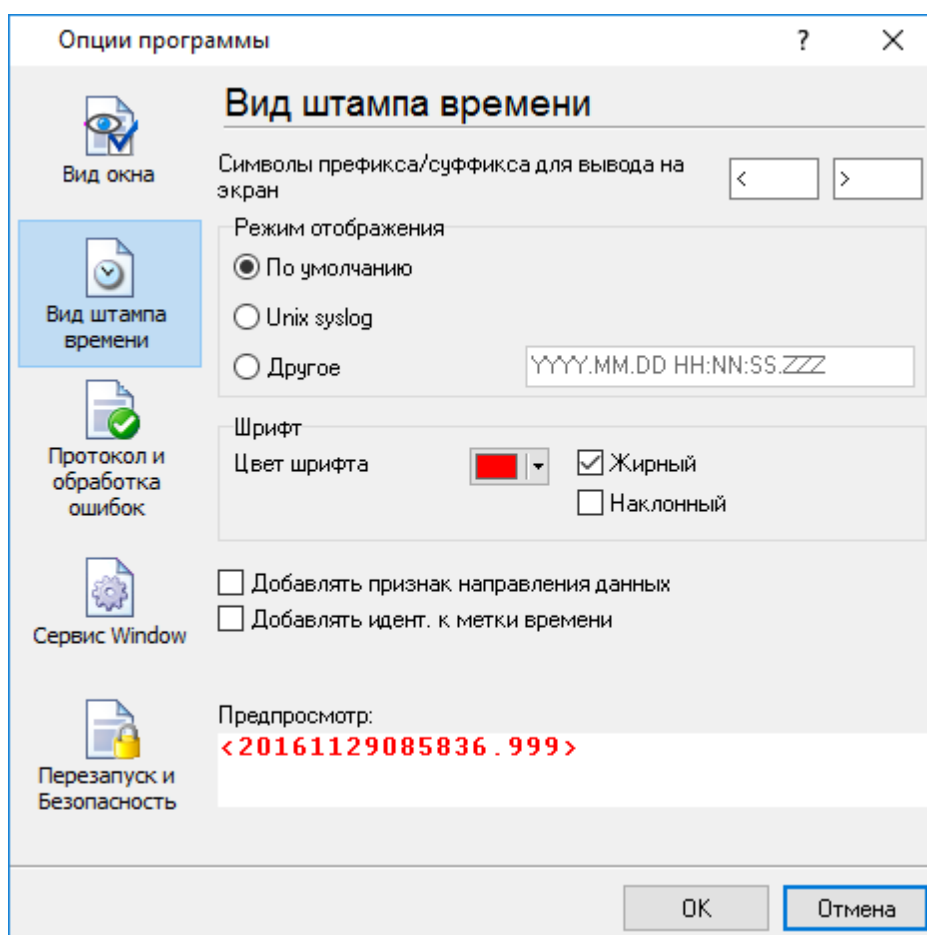
,

.

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5.6.2

(. 6.2.1)



. 6.2.1.

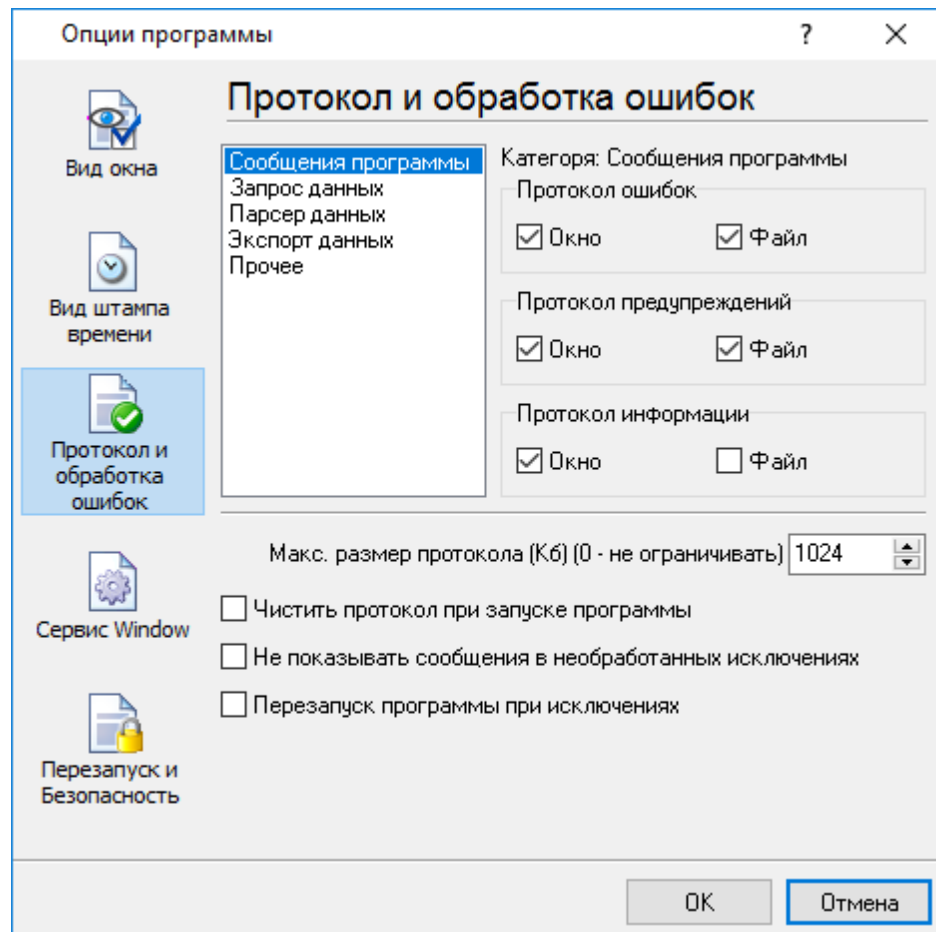
23

TX

RX

, COM1.

5.6.3



. 6.3.1.

GPS Tracker Data Logger

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-
-

- ; - ,
- - , ;
- - , ;
- - , ;

/

GPS Tracker Data Logger

5.6.4
5.6.4.1

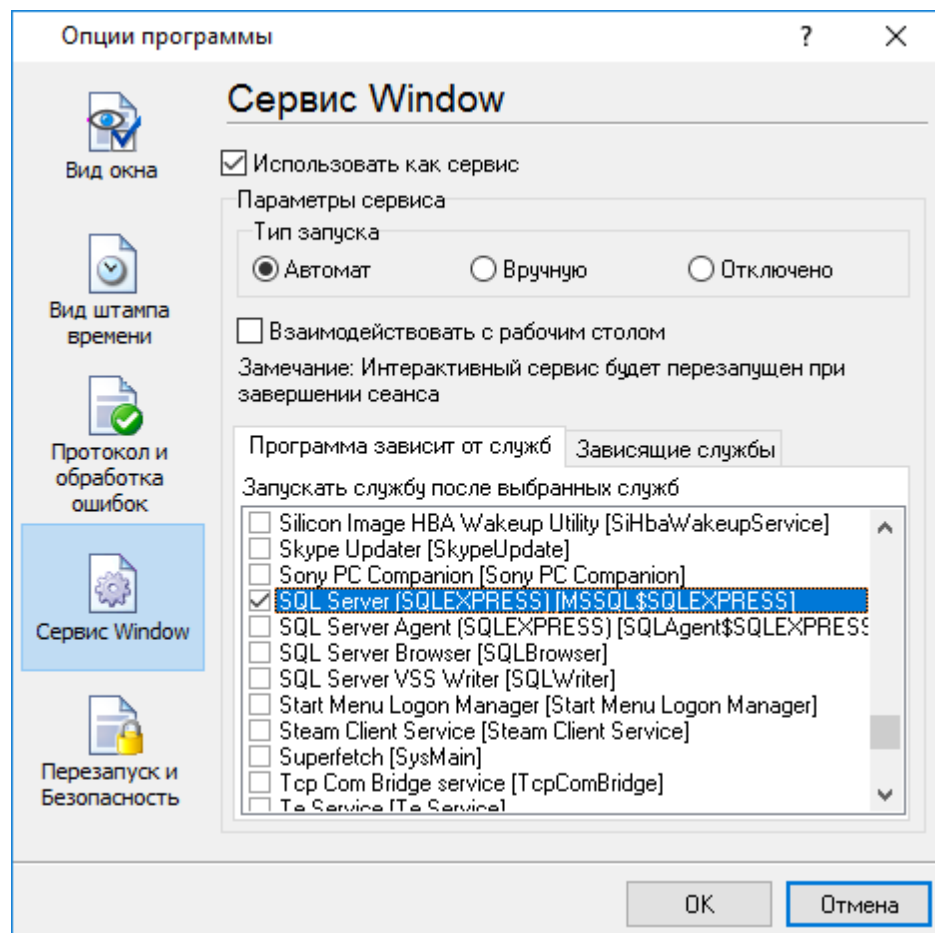
Windows 2000

() Windows :

- 2000); (Windows
- - ();
- ; ,
- ;

). (Windows Vista
(elevated) .

" " " **Windows**" (. 6.4.1).



. 6.4.1.

1. - ; Windows
 2. - ;
 3. - ;
- "
- "
- (. 6.4.2).
- " , . . Windows

47

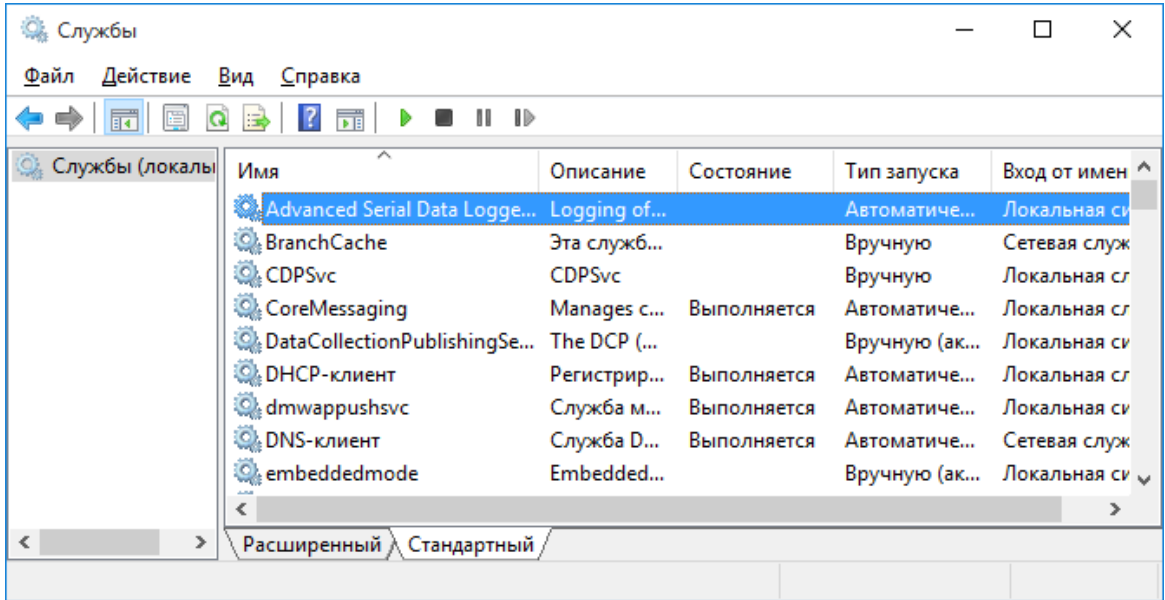
Windows Vista



. 6.4.2

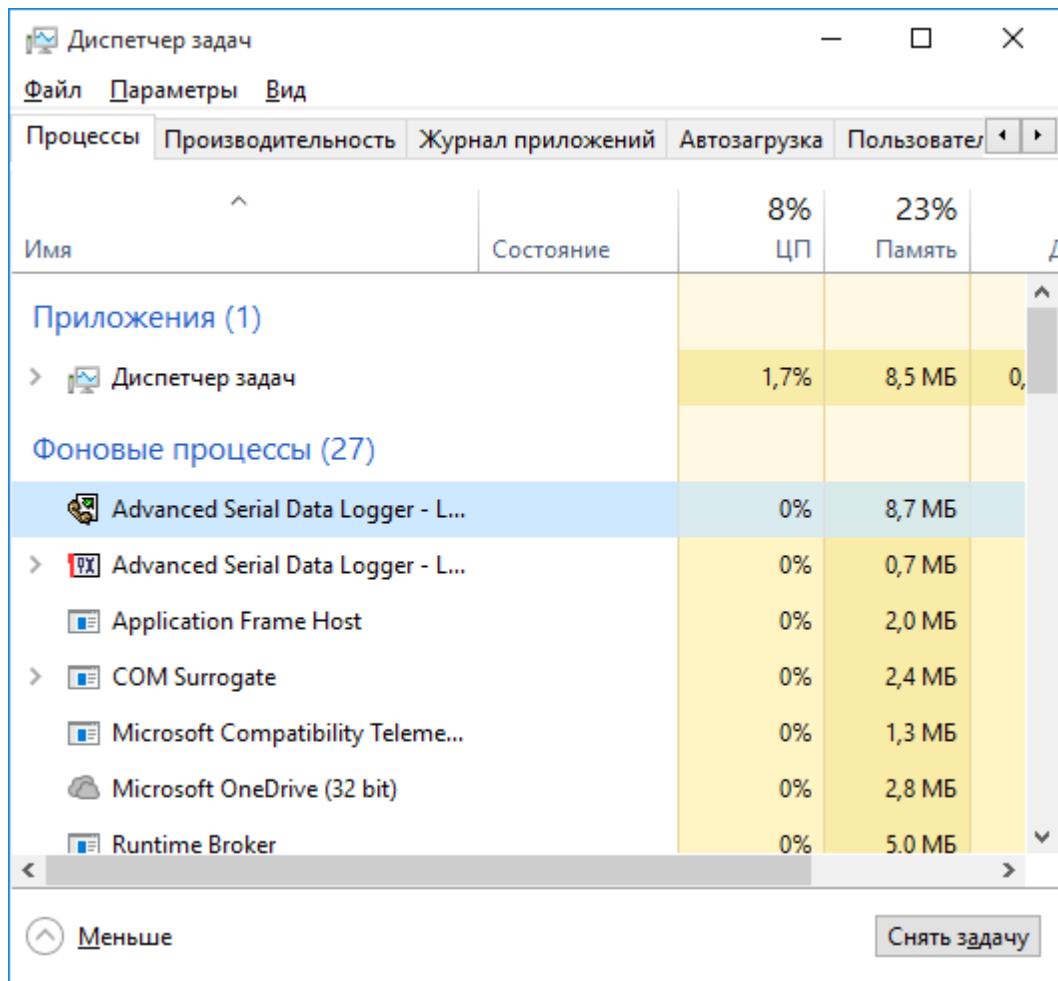
GPS Tracker Data Logger, " ' " (. 6.4.1)

' " " ' (. 6.4.3).



. 6.4.3. (Windows 2000)

exe (. 6.4.4).
 2 - gpstrackersrv.exe gpstracker.
 GPS Tracker Data Logger
 GPS Tracker Data Logger,
 svany.exe



. 6.4.4.

gpstrackersrv.exe :

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

5.6.4.2

Windows Vista

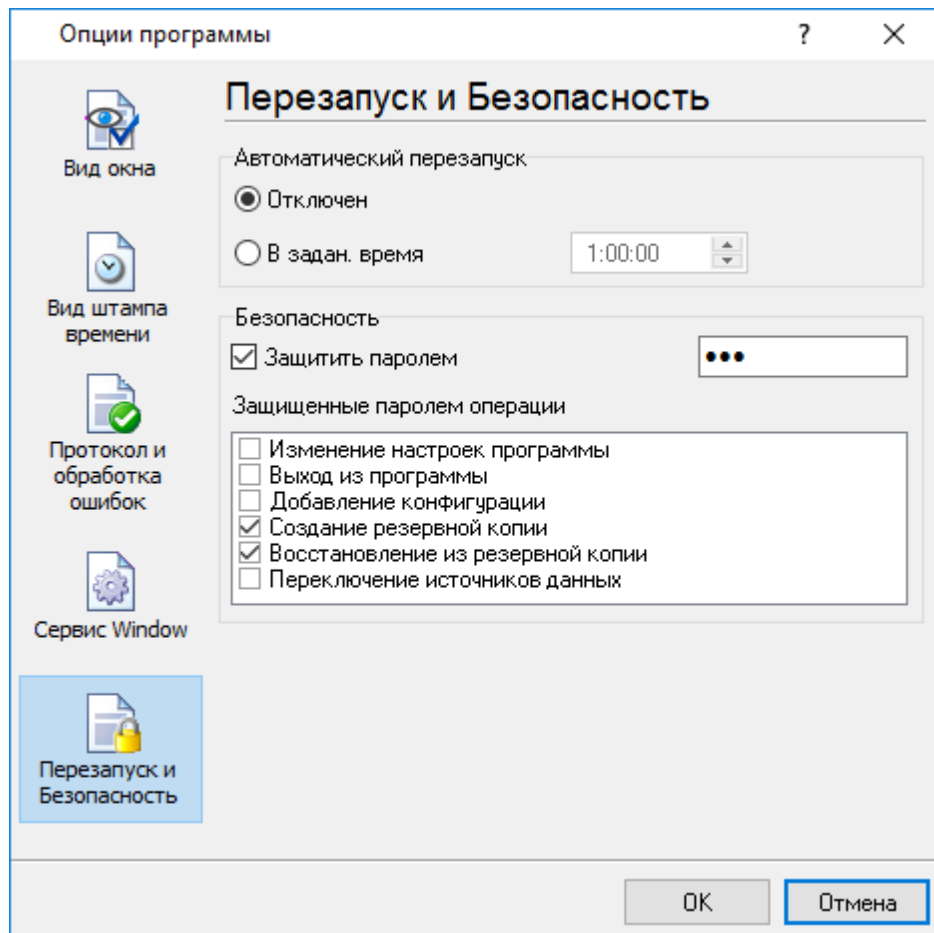
Windows Vista

Windows.

- : Interactive Services Detection
 - : UIODetect
 - : UIODetect.exe
 - :
 - : %windir%\system32\UIODetect.exe
 - :
- * Home Basic:
 - * Home Premium:
 - * Business:
 - * Enterprise:
 - * Ultimate:

5.6.5

(. 6.5.1).



. 6.5.1.

6

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6.1

SoftIce

support@aggsoft.ru.