

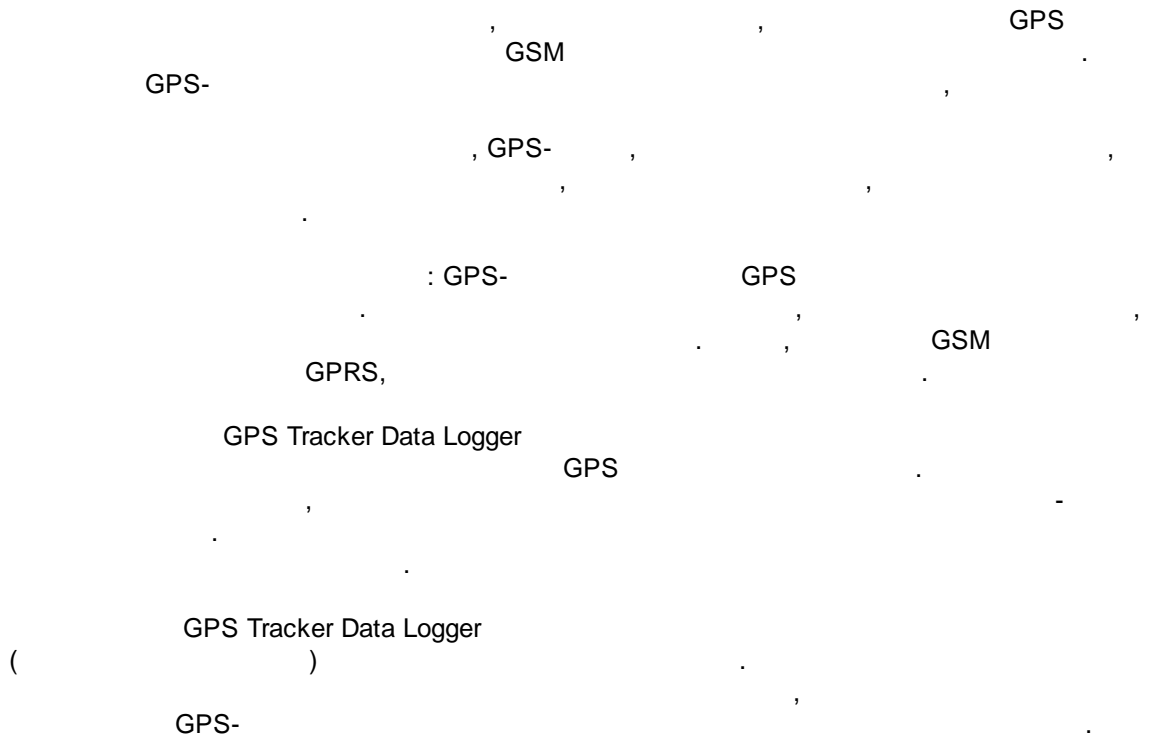
## GPS Tracker Data Logger

<b>1</b>		<b>1</b>
1	GPS Tracker Data Logger .....	1
2	.....	2
<b>2</b>	,	<b>3</b>
1	.....	3
2	.....	4
3	.....	5
4	.....	5
<b>3</b>		<b>5</b>
1	.....	5
2	.....	6
<b>4</b>		<b>6</b>
1	.....	6
2	.....	8
3	.....	10
4	.....	11
5	.....	11
<b>5</b>		<b>12</b>
1	.....	12
	TCP/IP .....	12
2	.....	18
	.....	18
3	.....	22
	.....	22
	.....	23
	.....	25
4	- .....	26
	- .....	26
	- .....	29
	.....	31
5	.....	32
	.....	32
	OPC .....	36
6	.....	38
	.....	38



1

1.1 GPS Tracker Data Logger



GPS Tracker Data Logger?

- GPS
- GPS Tracker Data Logger
- ASCII
- 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 ; ,
- ; .
- ;
- ( ) ; x32 x64 Windows 2000+ ;
- ! ; .

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	<a href="mailto:support@aggsoft.ru">support@aggsoft.ru</a>
	<a href="mailto:support@aggsoft.ru">support@aggsoft.ru</a>
	<a href="mailto:sales@aggsoft.ru">sales@aggsoft.ru</a>

## 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

GPS Tracker Data Logger.

, GPS Tracker Data Logger  
Tracker Data Logger"

"/Programs Files/GPS

GPS Tracker Data Logger

## 4

### 4.1

GPS Tracker Data Logger

GPS Tracker Data Logger

" "

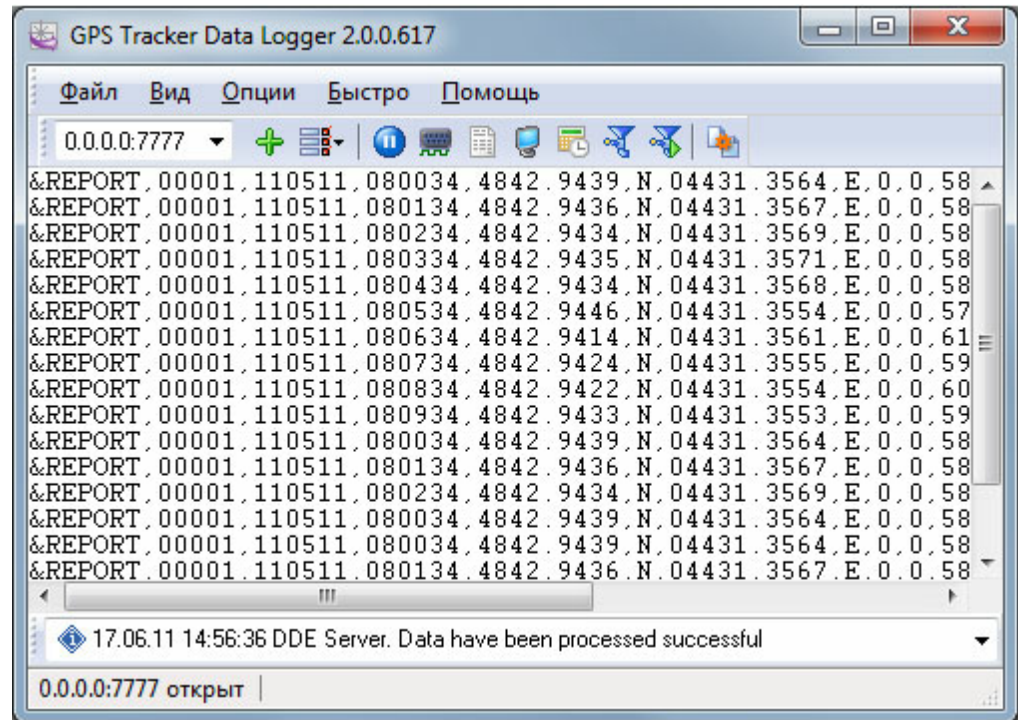
( . 1.1.1),

1.1.2)

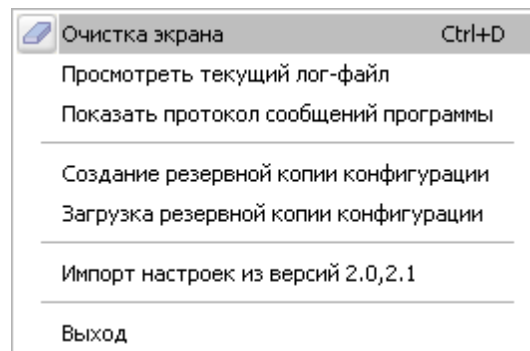
8 ("

..."),

" " (



## . 1.1.1.



## . 1.1.2.

C:\. ,  
 \_\_\_\_\_ 8

**1-2-3-4**

1.

" " :  
 \_\_\_\_\_ 12 " IP"

2.

( ).



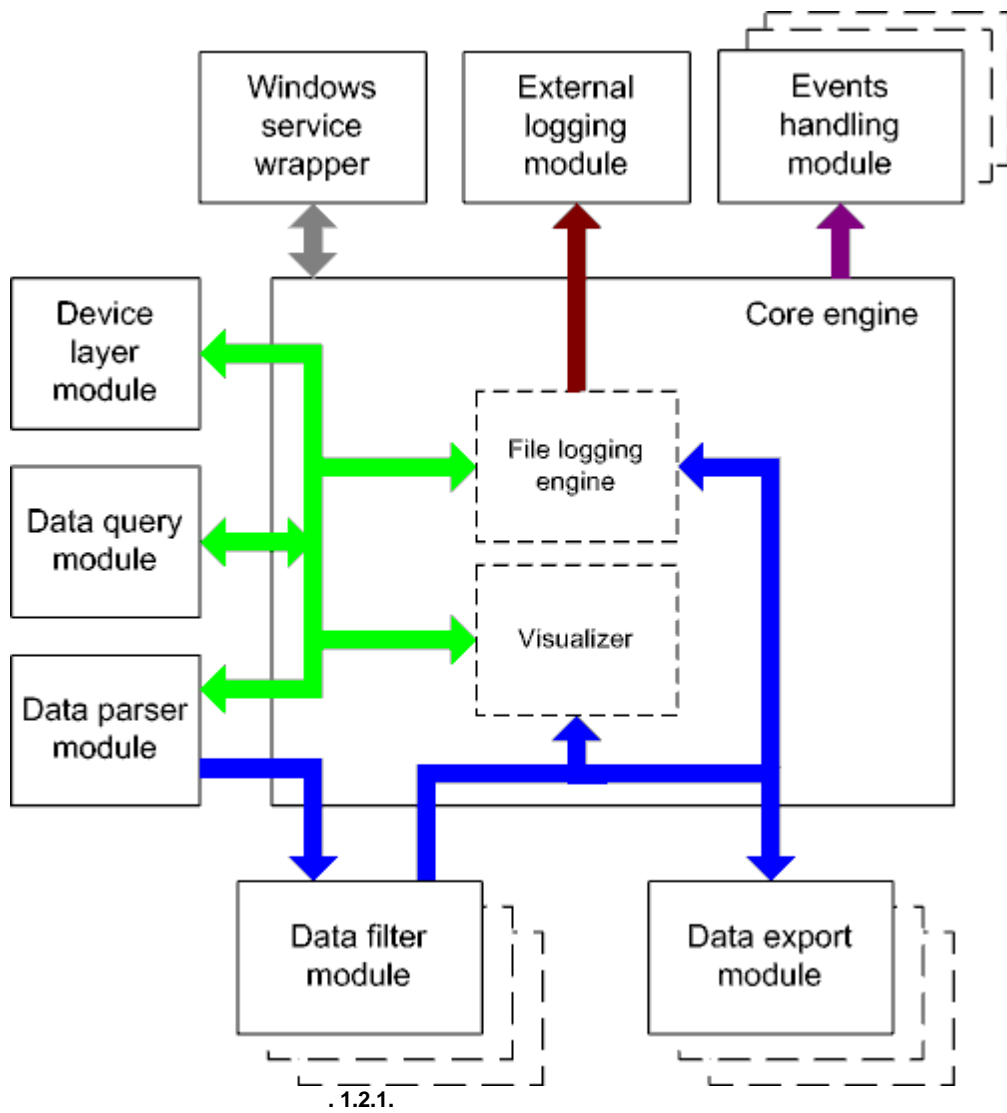
"\_\_\_\_\_ [22]",  
GPS Tracker Data Logger \_\_\_\_\_ [38].

Tracker Data Logger \_\_\_\_\_ [32] (plug-ins),  
GPS Tracker Data Logger. GPS

\_\_\_\_\_ [32].

\_\_\_\_\_ [41] ( \_\_\_\_\_ [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 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 -

Ctrl+L -

Ctrl+R -

log-

Ctrl+E -  
Ctrl+M -

Windows;

4.

..

5.

INI

" "

6.

10

:

## 5

### 5.1

#### 5.1.1

#### TCP/IP

##### UDP TCP

(User Datagram Protocol). TCP

TCP (Transport Control Protocol) UDP

IP. TCP

TCP

, TCP  
, UDP

UDP

UDP

TCP, UDP

IP

TCP, UDP

Messaging,

UDP

IP.

Instant

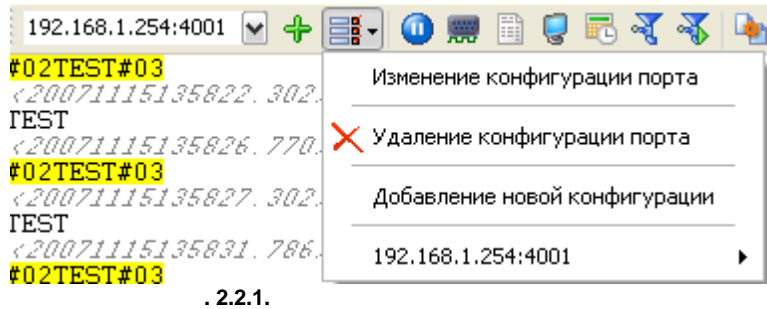
GPS Tracker Data Logger

TCP/IP

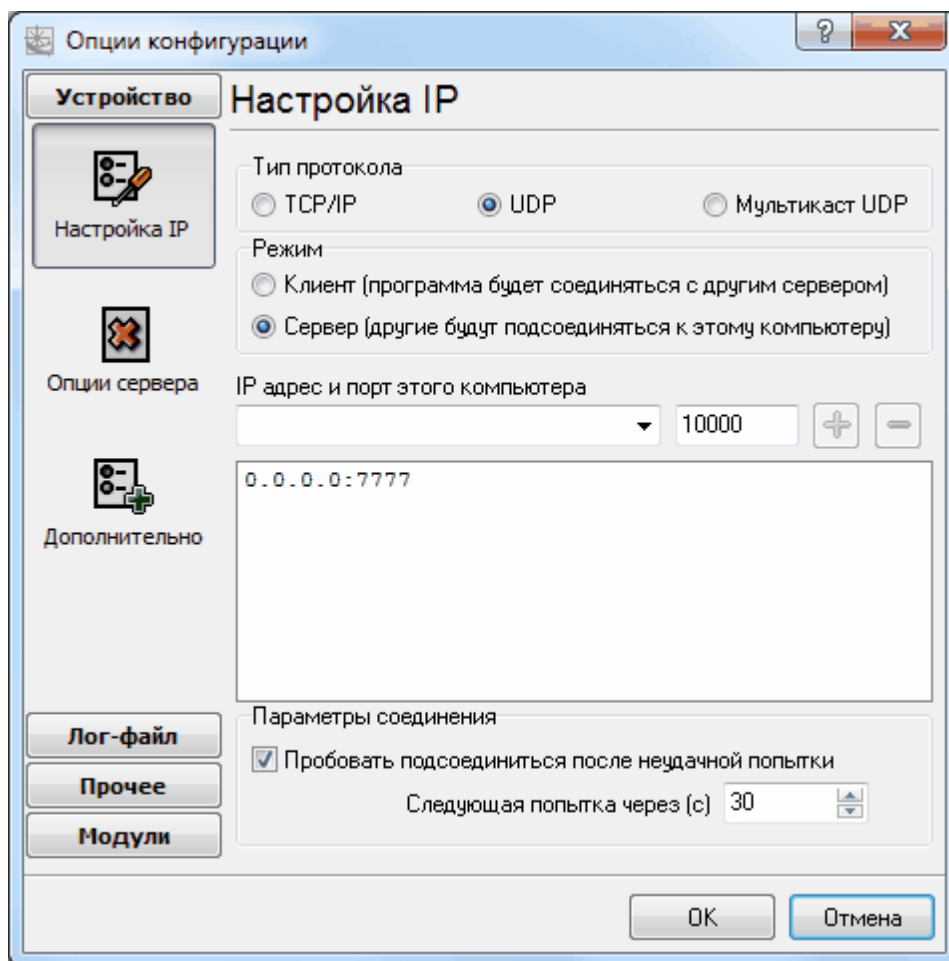
```

(
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
(NIC),
IP
GPS Tracker Data Logger
IP
Microsoft Windows, TCP/
IP
IP
IP
"OK"
GPS Tracker Data Logger TCP/IP.
IP
GPS Tracker
Data Logger
GPS Tracker Data Logger
( . 1.1.1 | 6 ).
( . 1.1.1 | 6 )
( . 2.2.2).
IP"
TCP/IP
" ( . 2.2.1).

```



IP: IP " IP" TCP/ " IP " "



. 2.2.2. TCP/IP

IP

119, . . . ,  
 SERVICES,  
 WINNT\SYSTEM32\DRIVERS\ETC).  
 SMTP - 25, the telnet - 23, NNTP -  
 Windows ( Windows NT  
 SERVICES - ,  
 GPS Tracker Data Logger ( )  
 ( , ) .  
 , .  
 , .  
 , .  
 IP (socket).  
 , .  
 , .  
 IP  
 " " IP  
 ( IP ) .  
 , .  
 ) ( ) ( )  
 " , GPS Tracker Data Logger  
 N , " (c)".  
 IP  
 , .  
 IP  
 GPS Tracker Data Logger - IP  
 " " .  
 (firewall)  
 Microsoft Windows XP SP2 , GPS Tracker Data  
 Logger . Windows Firewall, ,  
 Windows Firewall ,  
 (Security Alert).



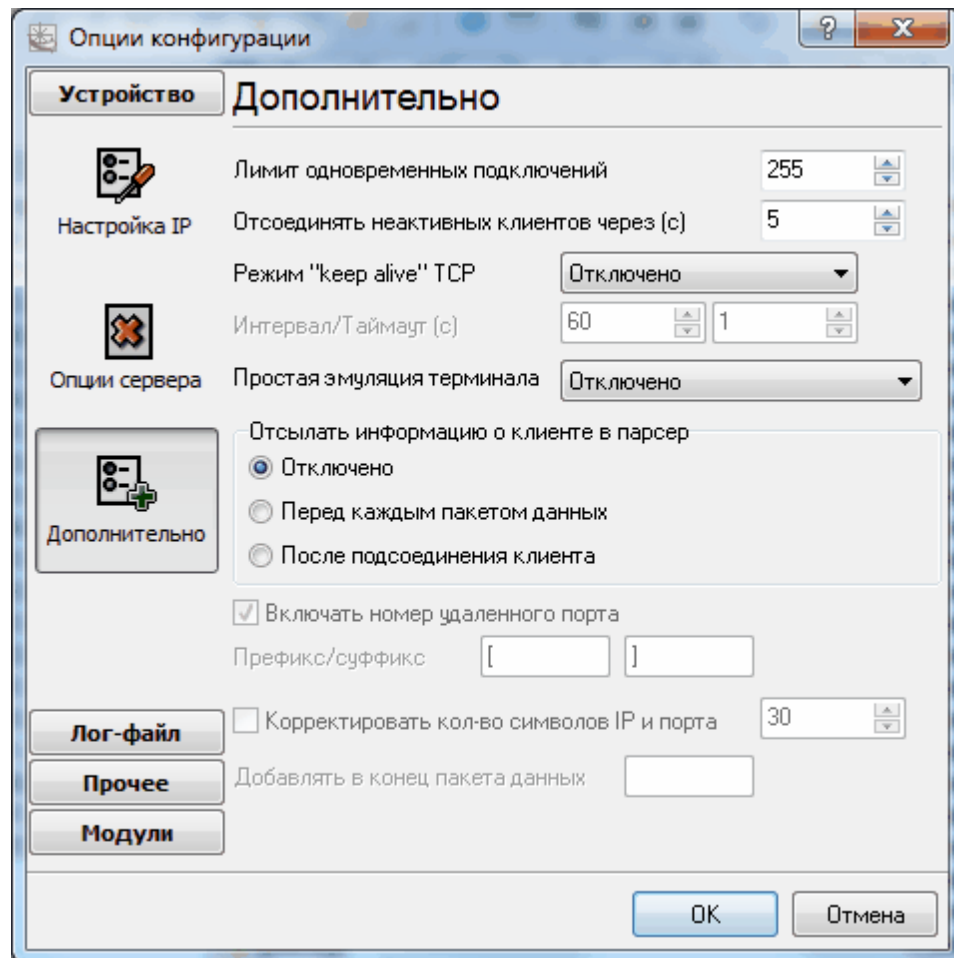
. 2.2.3.

• ;  
• ;  
• ;

" " TCP/IP  
( . 2.2.4).

"TCP/IP":  
( )-

"-1",



. 2.2.4.

**TCP/IP**

:

keep-alive TCP ( ) -

keep-alive,

Windows.

:

keep-alive

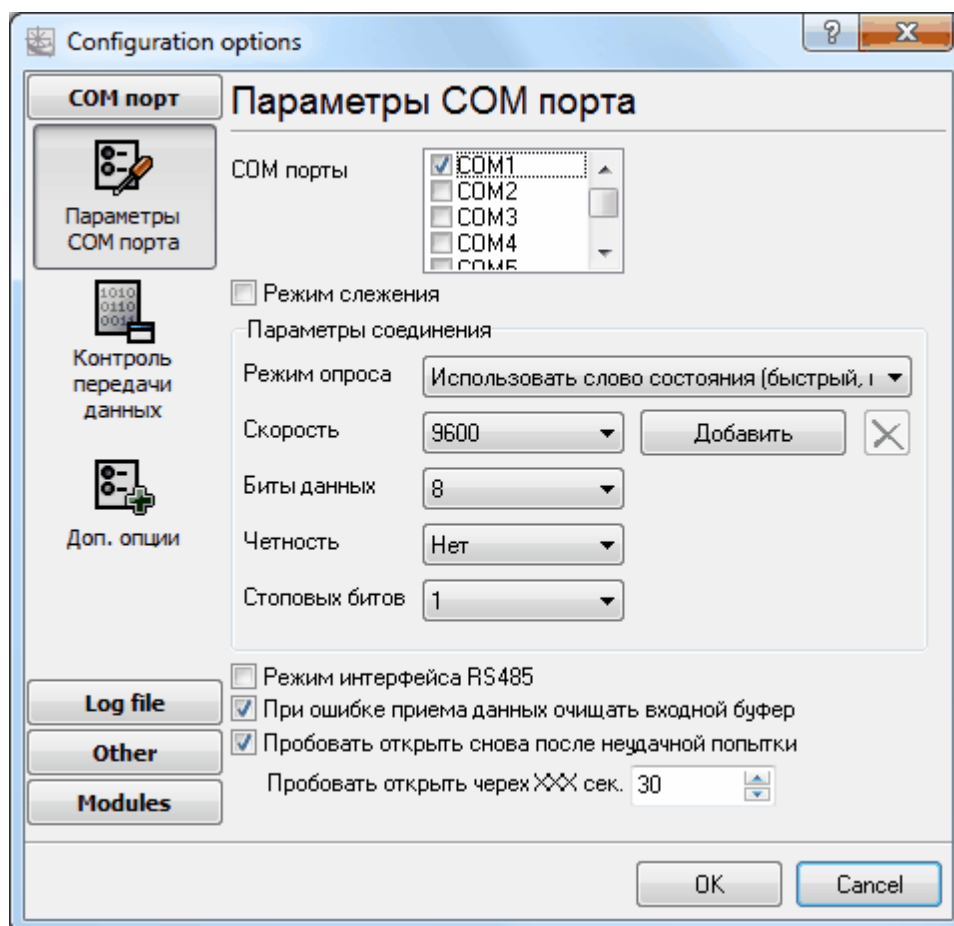
UDP):

(TCP

## 5.2

### 5.2.1

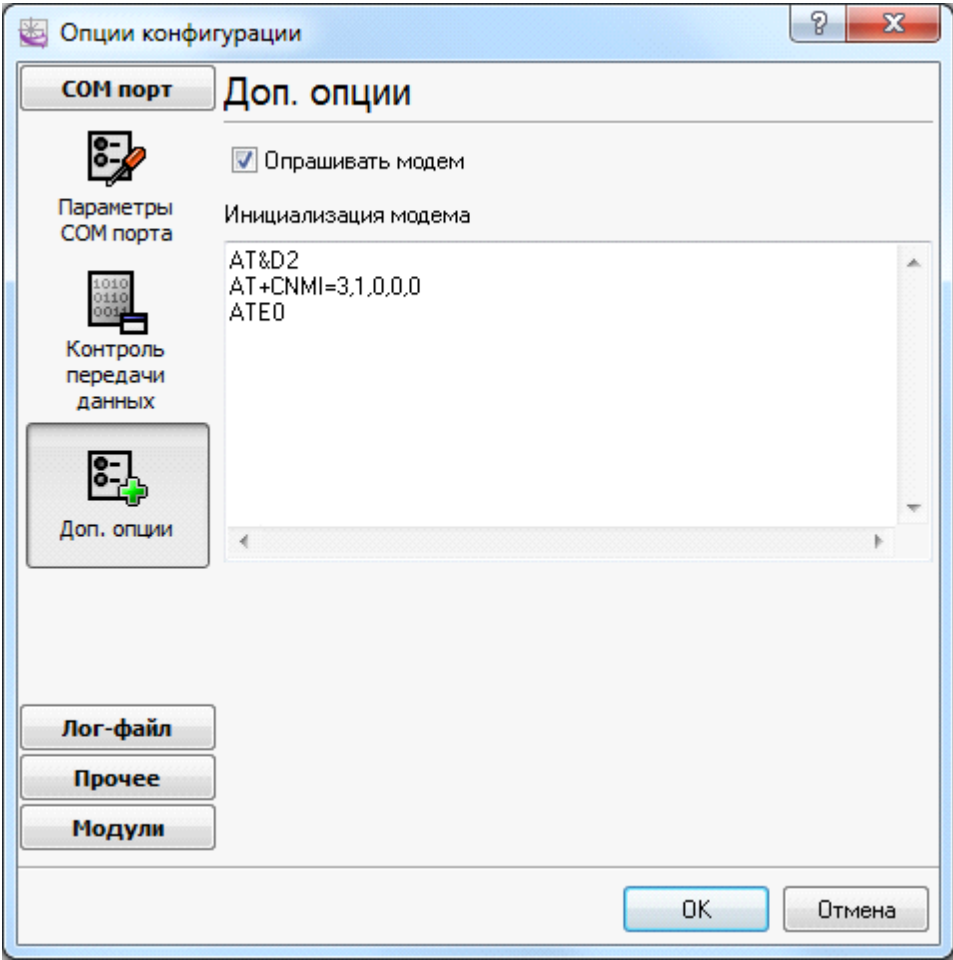
- 1. GSM- ( ) GSM
- 2. AT
- 3. COM ( Ethernet, USB, Bluetooth ) ( . 2.9.1) COM



. 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

" " ( Windows)

1. GSM.  
( , 9600 19200),

2. :

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 AT+CMGL=4 ( OK  
SMS- ),

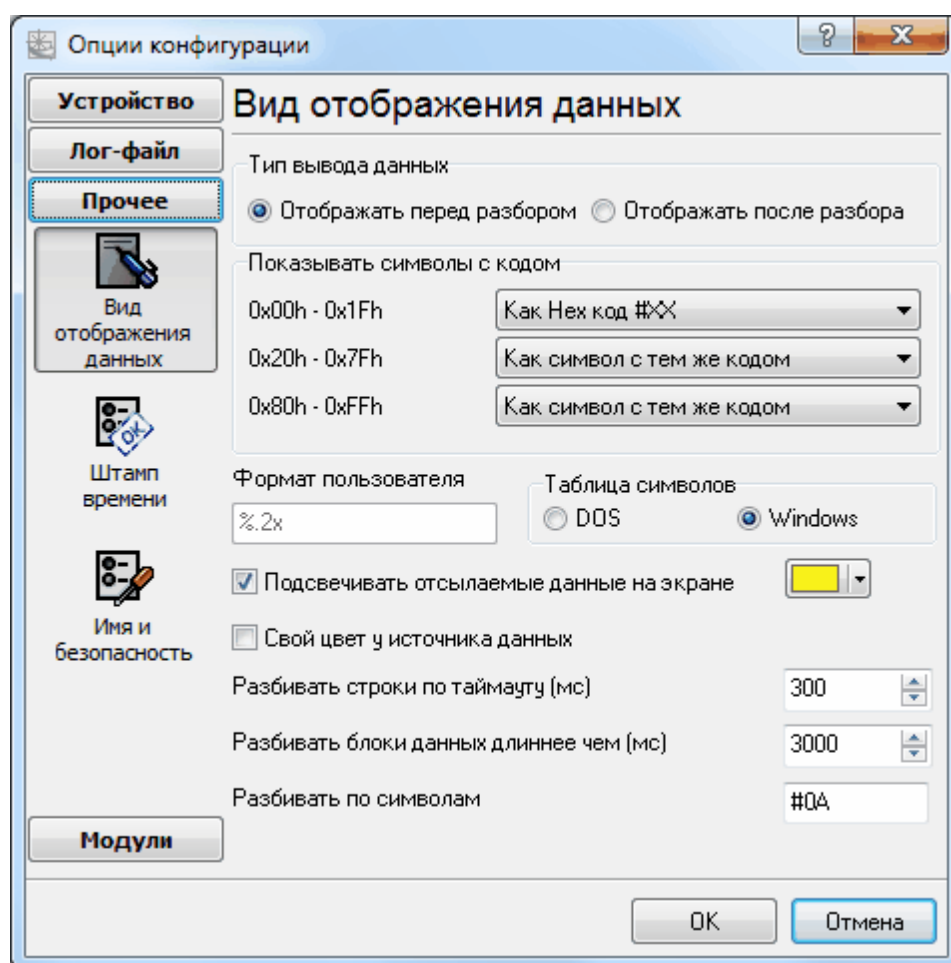
## 5.3

### 5.3.1

3.1.1):

1.

2.



. 3.1.1.

" ( . 3.1.1)

Hex-

%d

, %x -

(OEM).

: Windows DOS

0,

0,

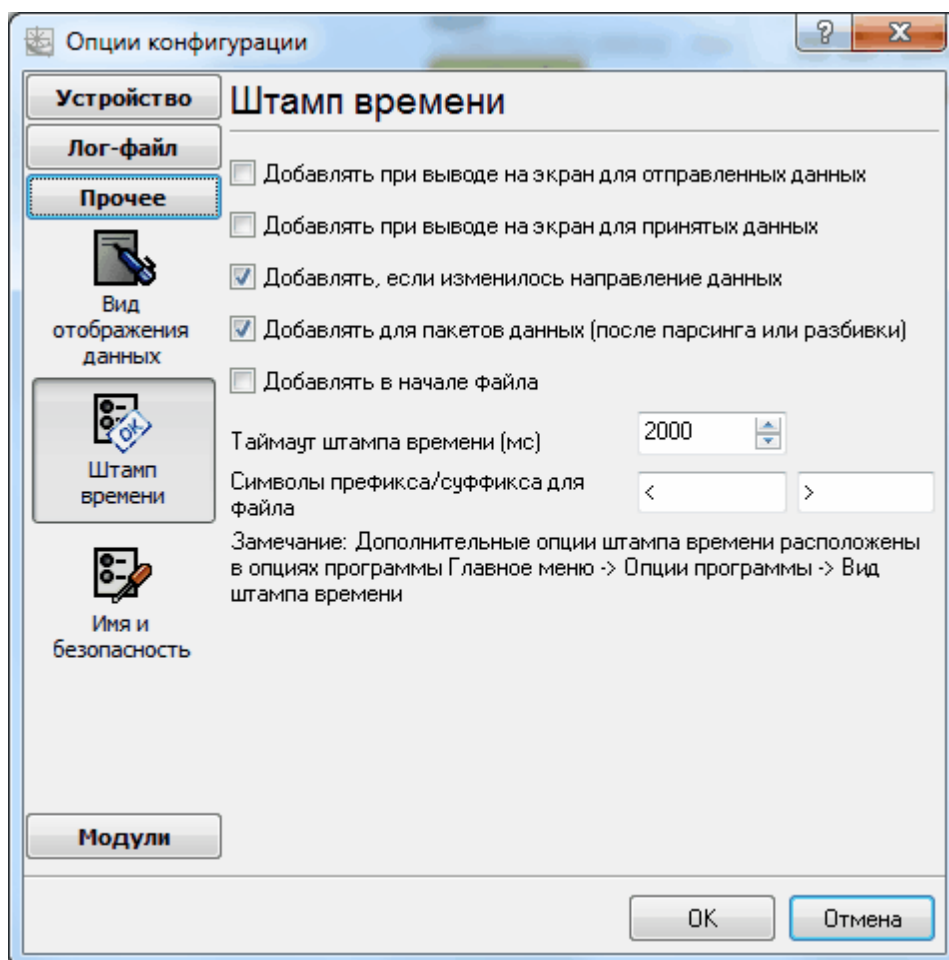
. 3.1.1

### 5.3.2

( . 3.2.1)

( )

           40).



. 3.2.1.

\_\_\_\_\_ [40] ,  
 :>#0D#0A

### 5.3.3

( . 3.3.1) :

-

.

- ,

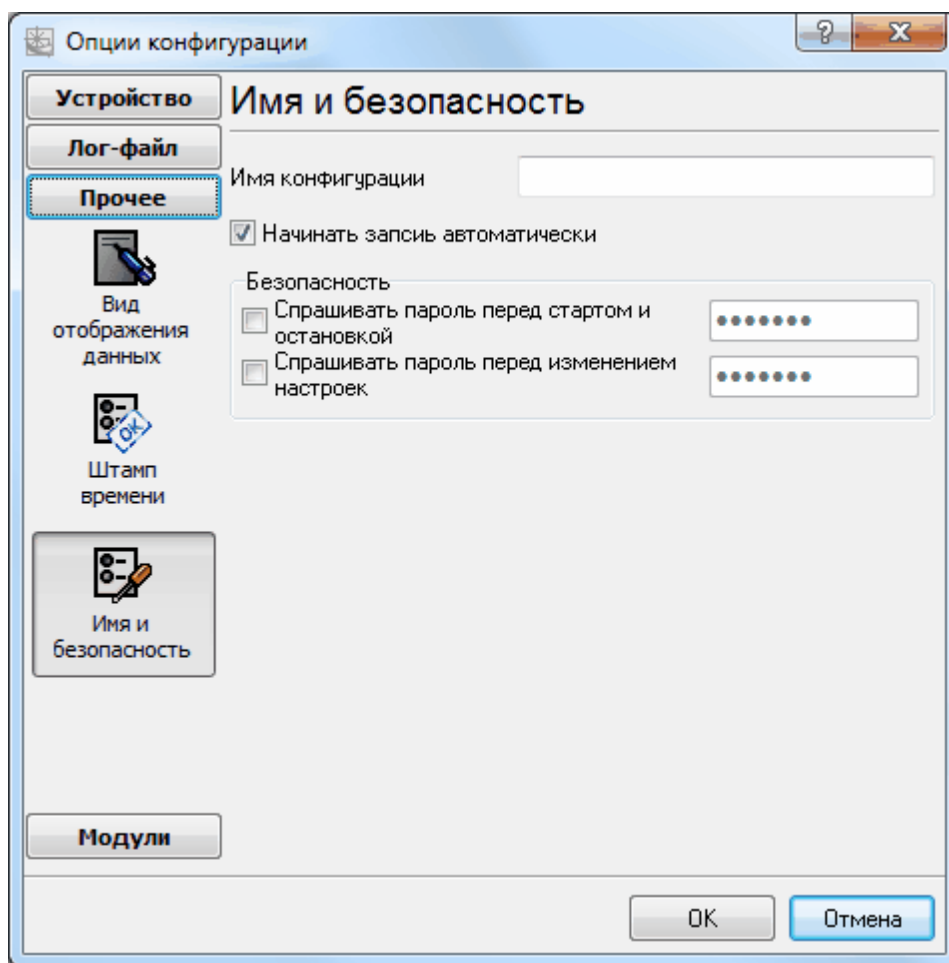
" "

, \_\_\_\_\_ [46]

" / "

- ,

- ,



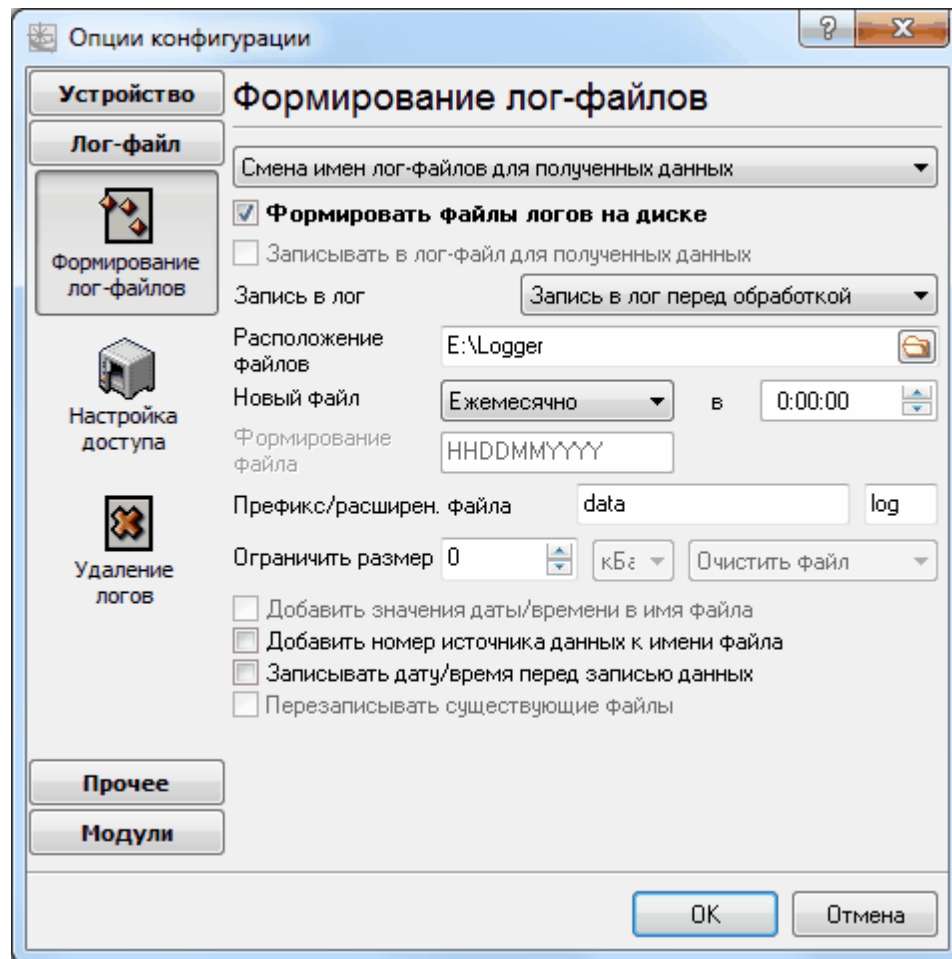
. 3.3.1.

## 5.4 -

### 5.4.1 -

( . 4.1.1).

- ( ).



. 4.1.1.

"OK".

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

```

```

sample20030321.log.

```

```

/

```

```

4 7.

```

```

1.

```

```

2.

```

```

3. ( ) -

```

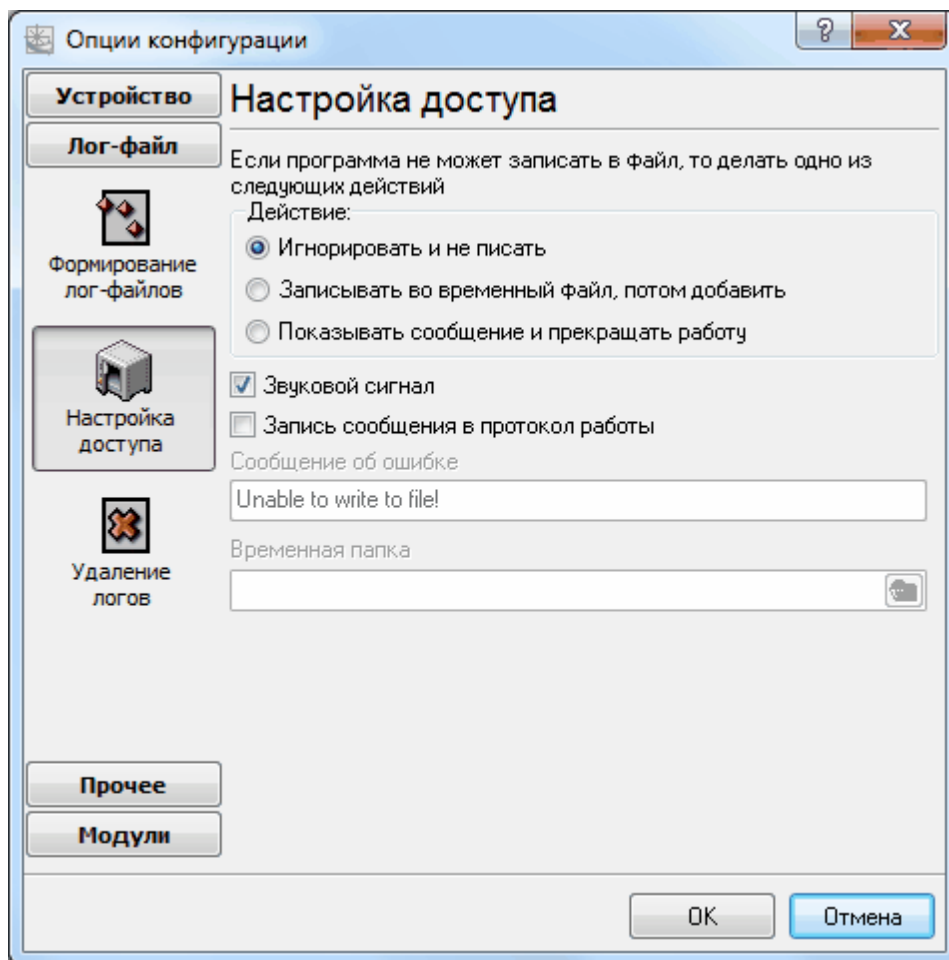
```

4. ( ).

```

## 5.4.2

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



. 4.2.1.

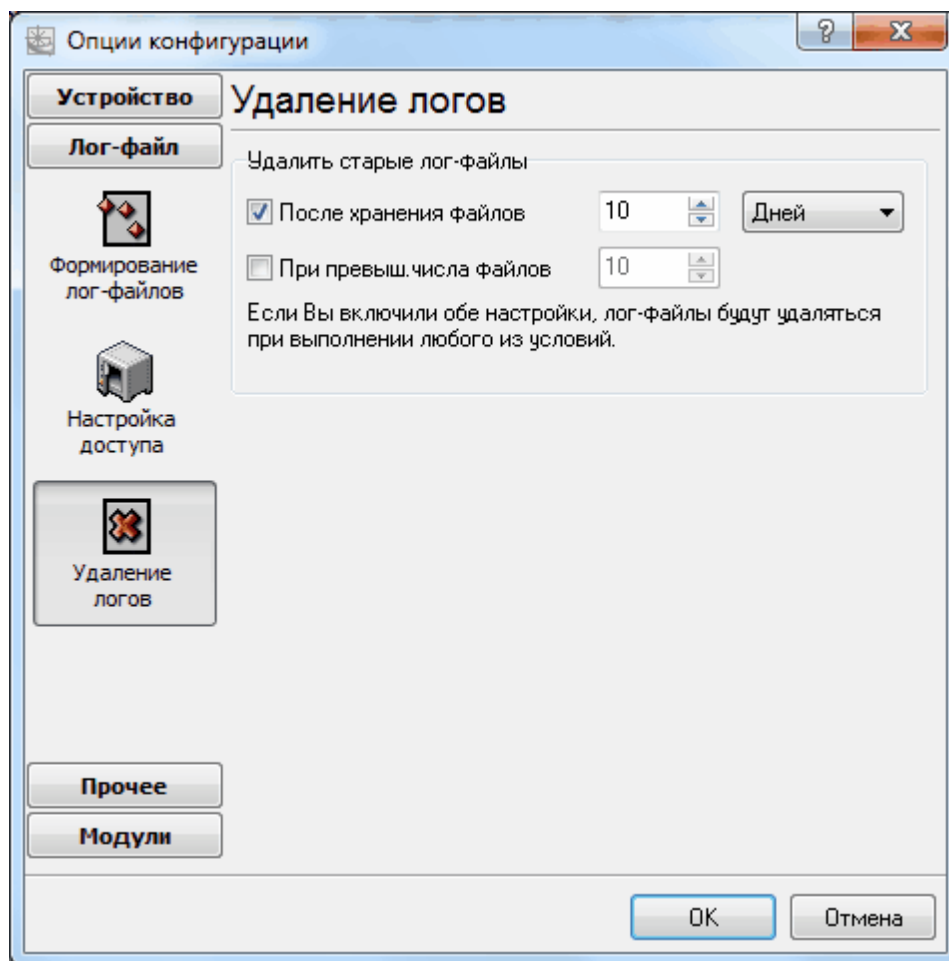
#### GPS Tracker Data Logger

( . 4.2.1),

- 
- 
-

## 5.4.3

(рис. 4.3.1).



. 4.3.1.

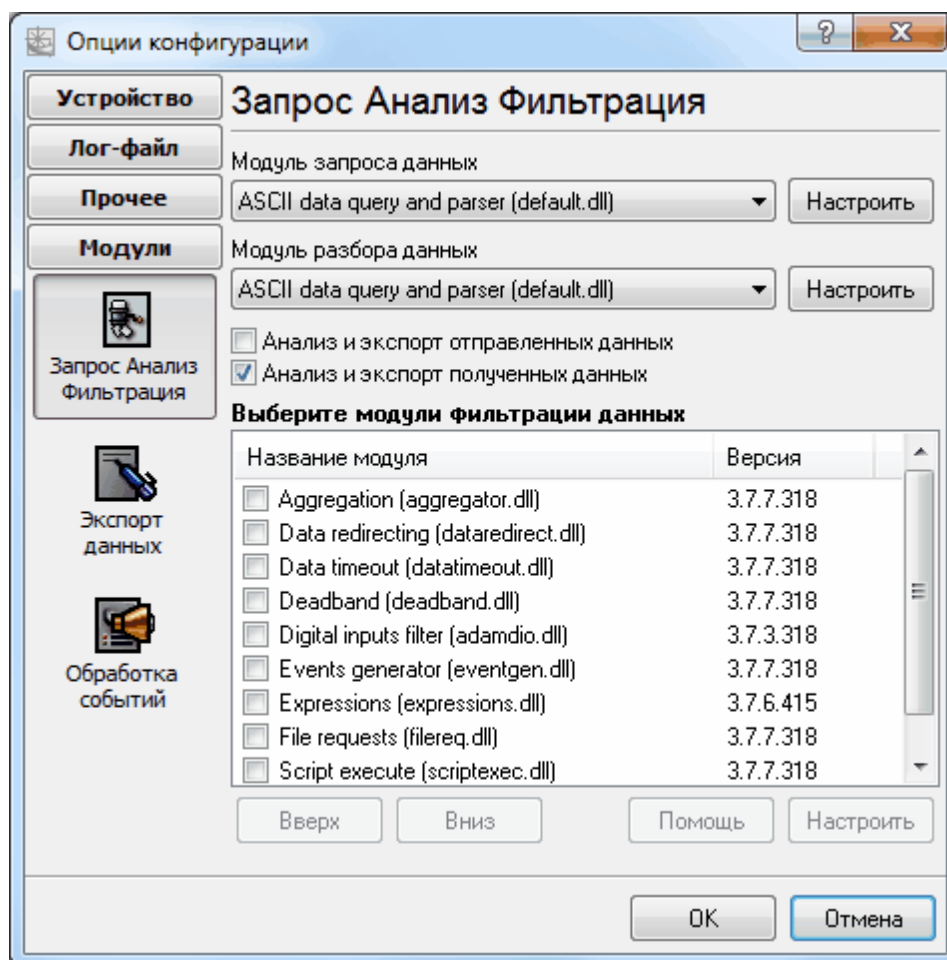
## 5.5

### 5.5.1

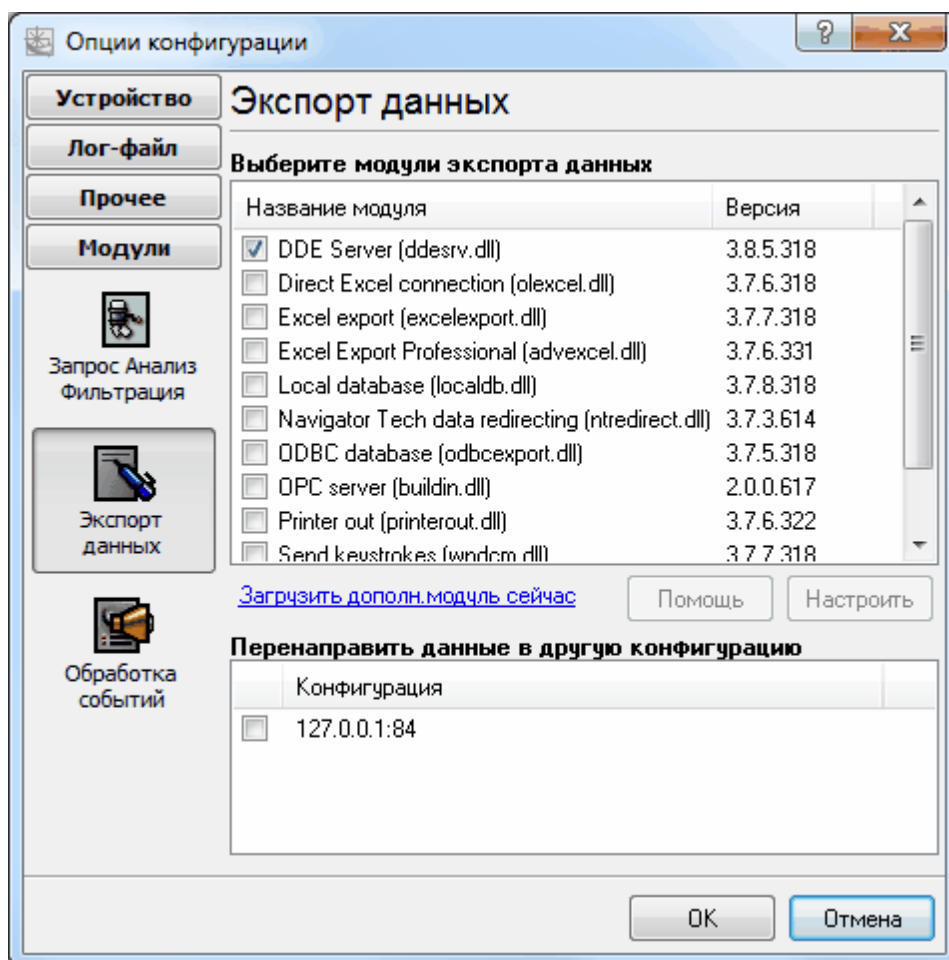
), ( , ) , . " " ( . 5.1.1 - 5.1.3).

GPS Tracker Data Logger :

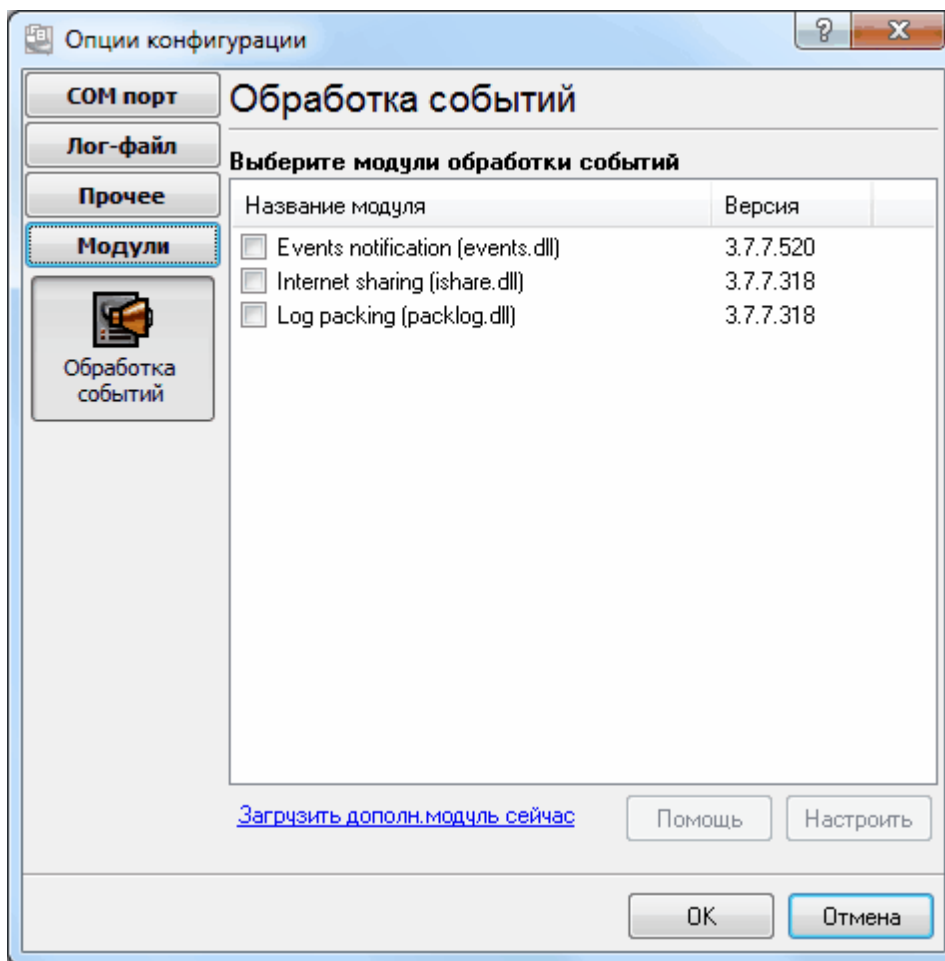
- - ;
- ( , , ) - ( ) ;
- - ;
- - ;
- , Excel ;
- ( . 5.1.3) - GPS Tracker Data Logger. , " - " " , .



. 5.1.1.



. 5.1.2.

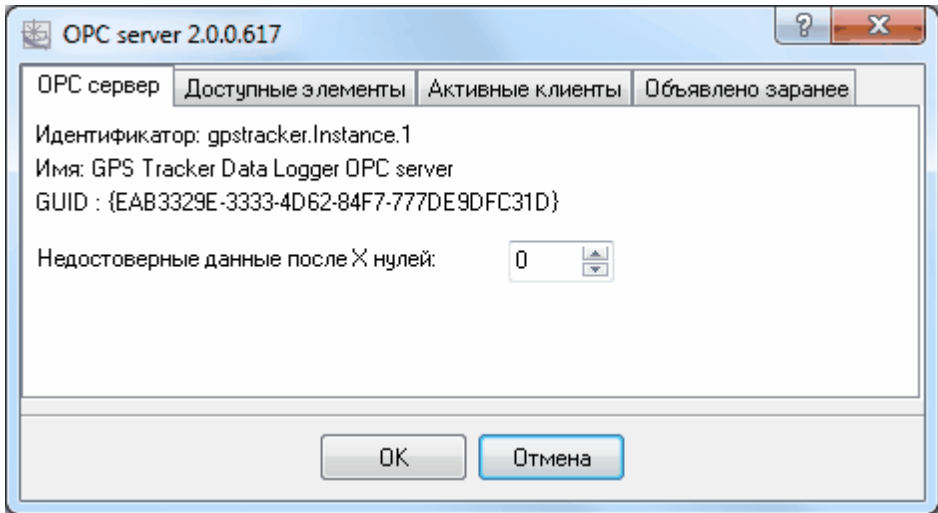


. 5.1.3.

"OK".

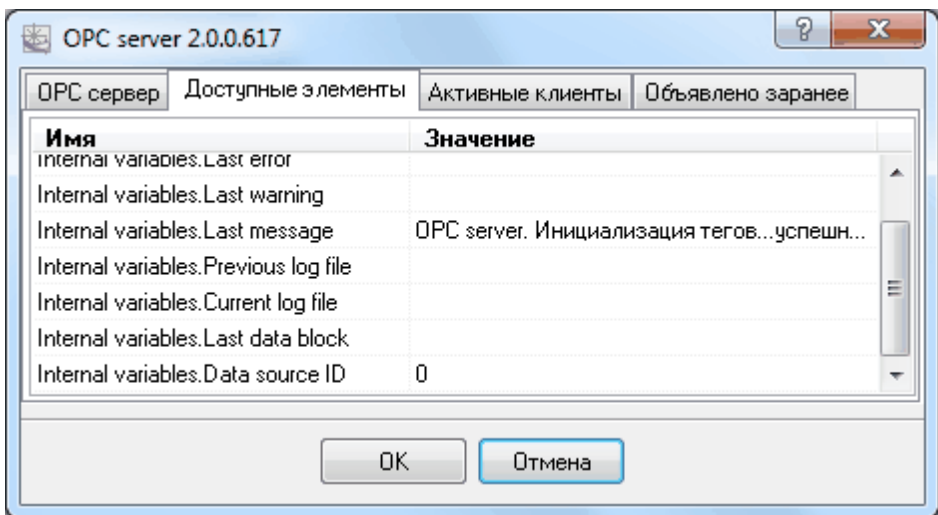
### 5.5.2 OPC

GPS Tracker Data Logger OPC OPC GPS Tracker Data Logger  
( . 5.2.1). OPC  
OPC Core Components Redistributable [www.opcfoundation.org](http://www.opcfoundation.org)  
OPC OPC

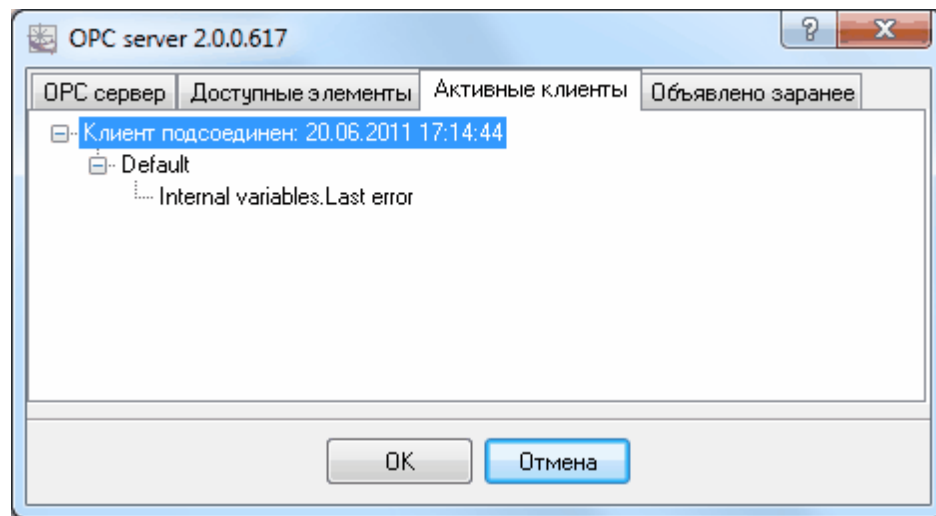


. 5.2.1. OPC

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



. 5.2.2. OPC



. 5.2.3.

GPS Tracker Data Logger

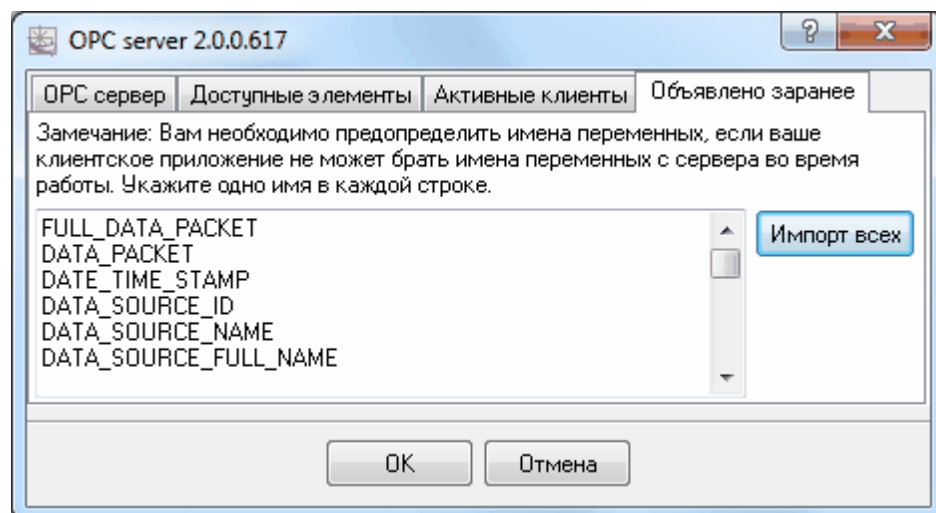
GPS Tracker Data Logger

OPC

(.4).

OPC

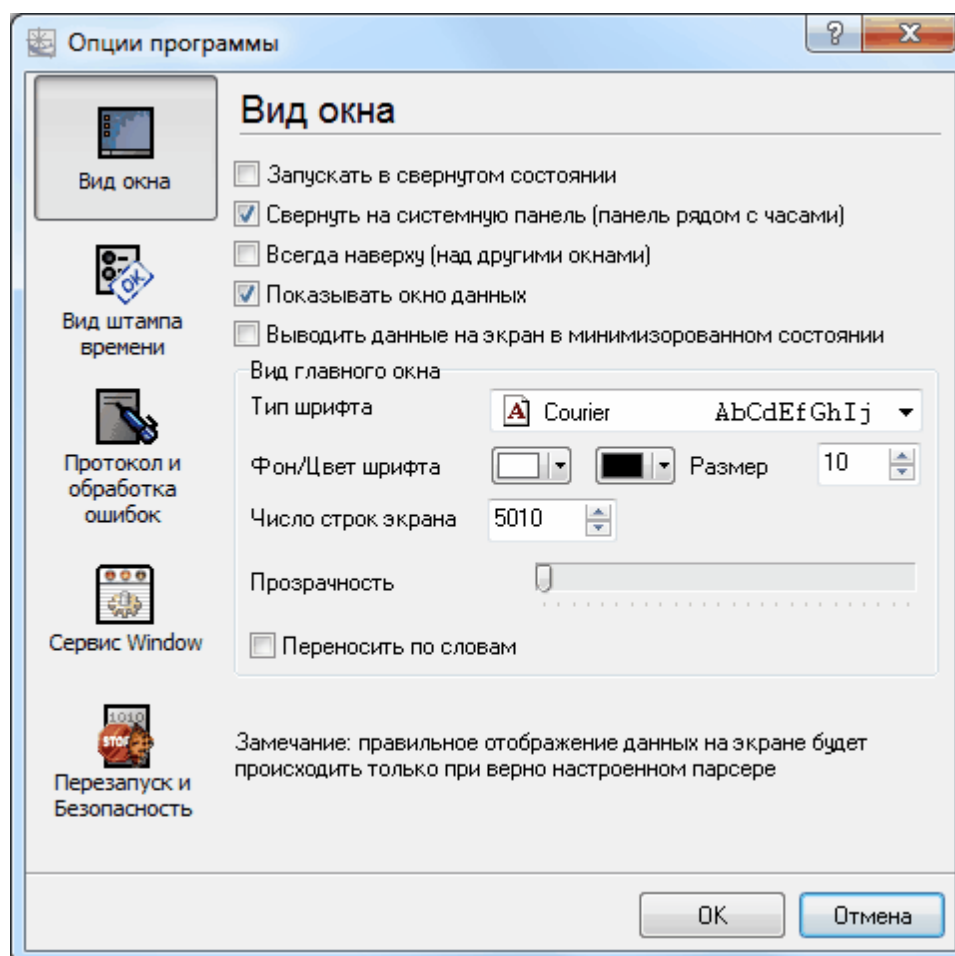
OPC



. 5.2.4.

## 5.6

## 5.6.1

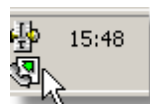


. 6.1.1.

" ( . 6.1.1) :

- GPS Tracker Data Logger

( . 6.1.2) ;



. 6.1.2. -

( . 6.1.2) - GPS Tracker Data Logger

;

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- /

,

;

);

- ( , ,

;

- Windows 2000

,

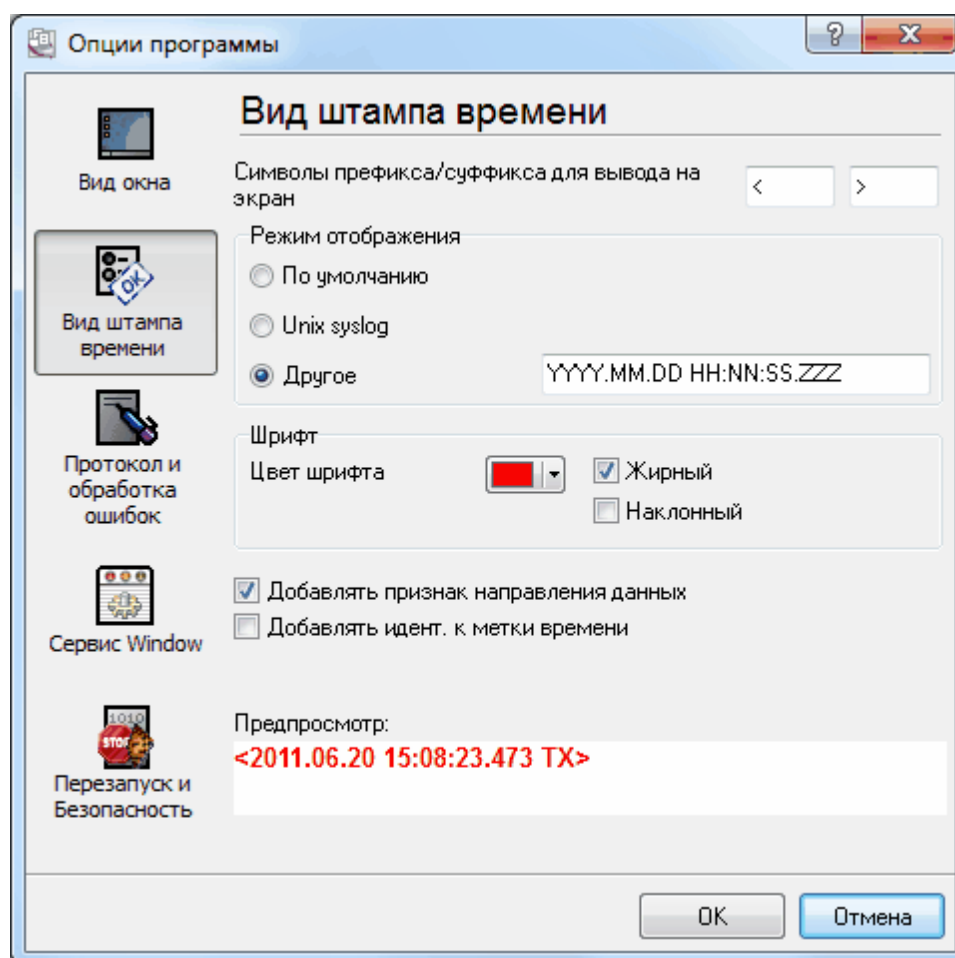
-

,

.

## 5.6.2

( . 6.2.1)



. 6.2.1.

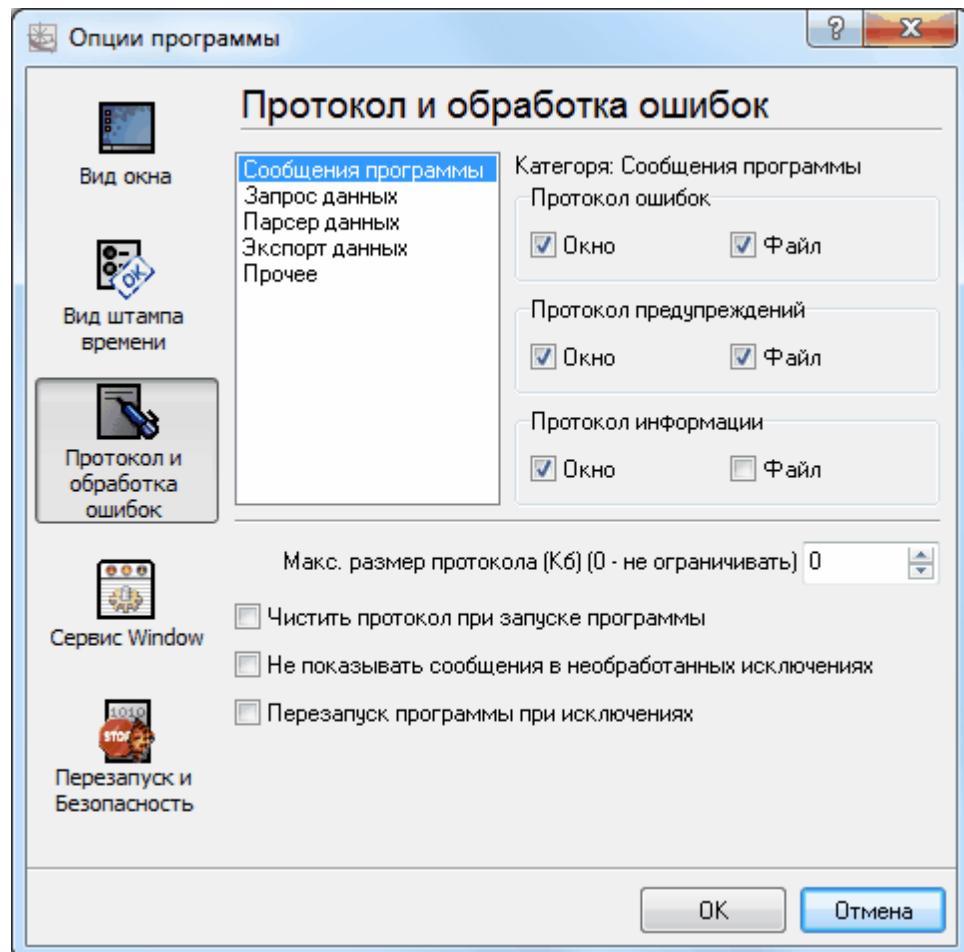
23

TX

RX

, COM1.

## 5.6.3



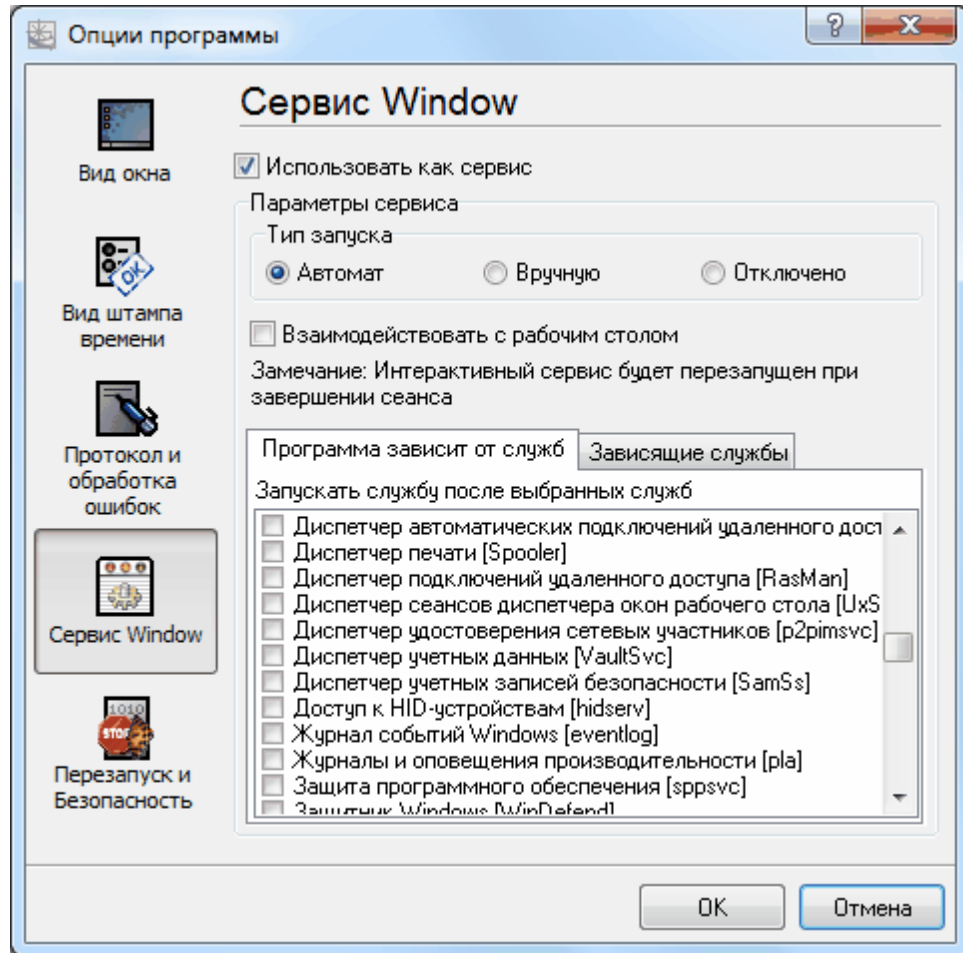
. 6.3.1.

GPS Tracker Data Logger

3-

- 
- 
-

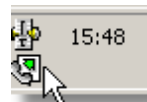




. 6.4.1.

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

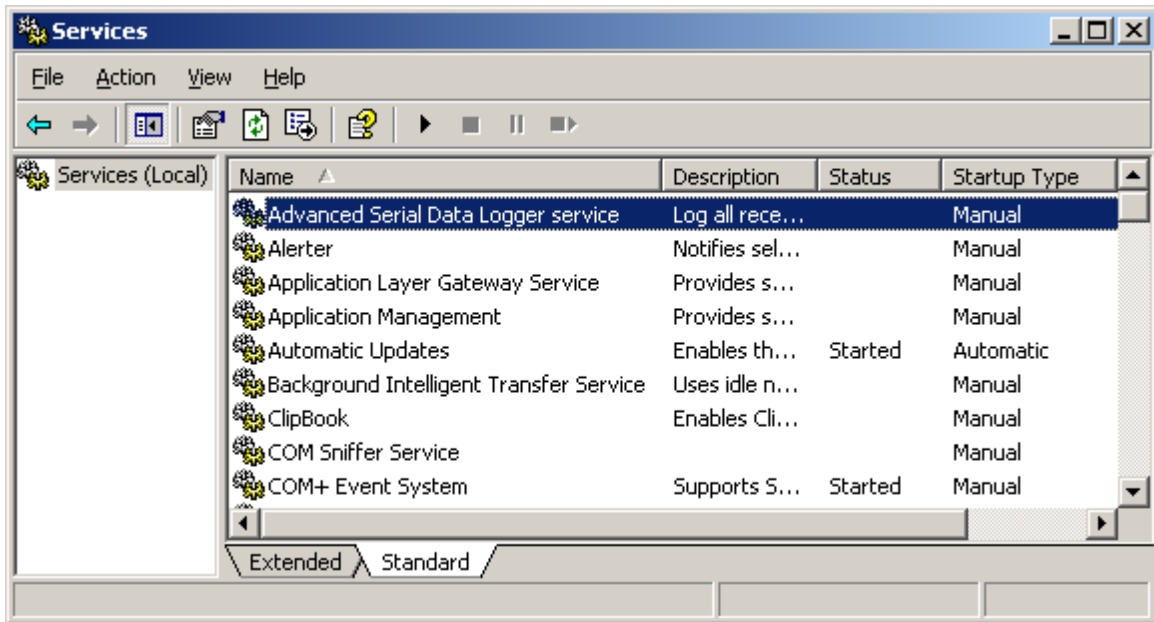
: \_\_\_\_\_ 45) Windows Vista



. 6.4.2

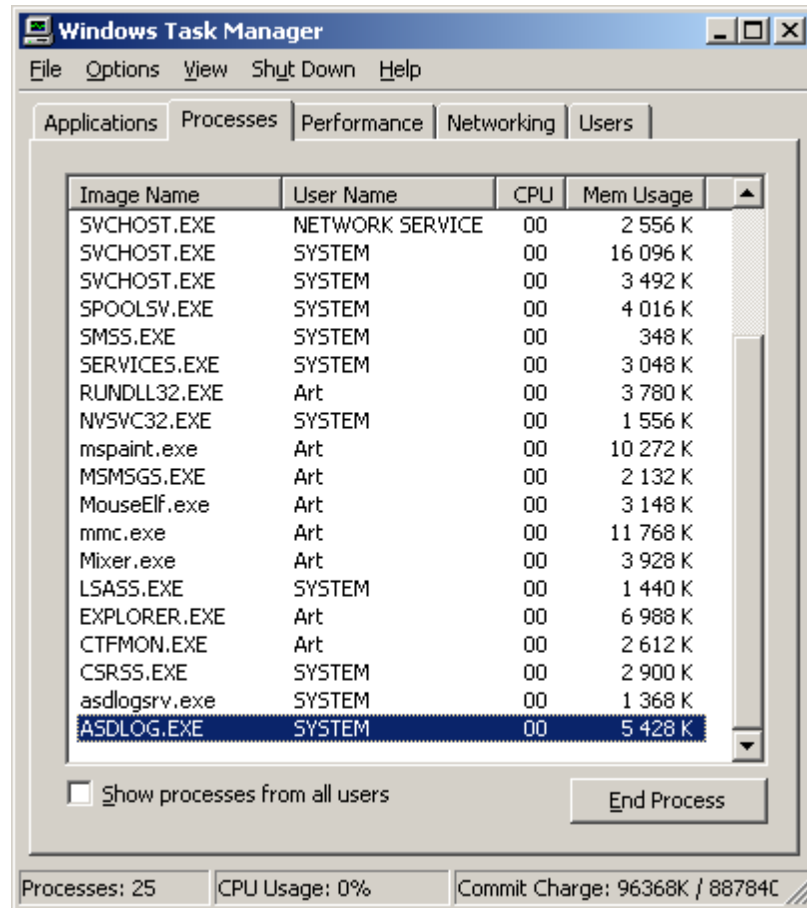
GPS Tracker Data Logger, " ( . 6.4.1)

' " " ( . 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

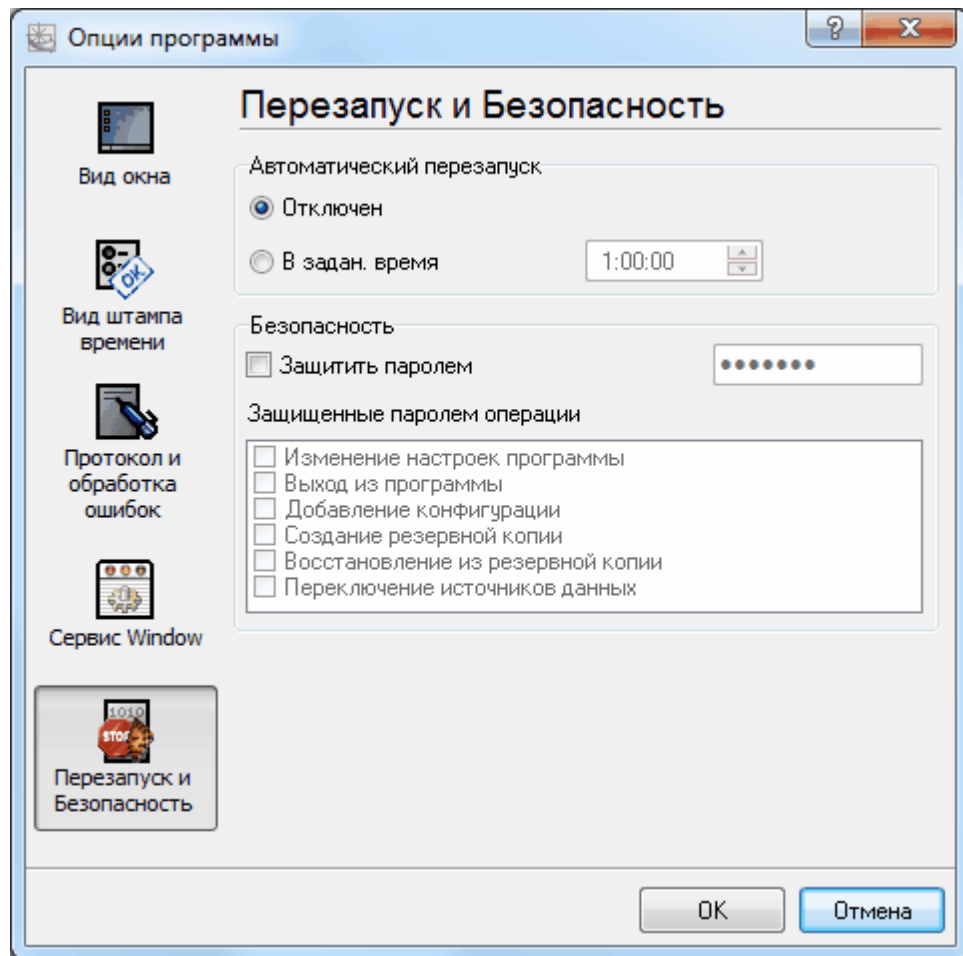
Windows Vista

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

?

6.1

SoftIce

[support@aggsoft.ru](mailto:support@aggsoft.ru)