



USB HID Logger

<b>1</b>		<b>1</b>
1	.....	1
<b>2</b>	,	<b>1</b>
1	.....	1
2	.....	2
3	.....	3
4	.....	3
<b>3</b>		<b>4</b>
1	.....	4
2	.....	4
<b>4</b>		<b>4</b>
1	.....	4
2	.....	6
3	.....	7
4	.....	8
5	.....	8
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2	.....	11
	.....	11
	.....	13
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<b>6</b>	<b>?</b>	<b>39</b>
<b>1</b>		<b>39</b>

# 1

## 1.1

**ASCII** - ASCII -

Windows  
ASCII. ASCII \*.TXT ( ,  
README.TXT).

**Binary File** - ASCII ( 0 255).

**Bytes** ( ) - , , .

**Bit** ( ) - : 0 1. 8  
8 ( ) .

**Cable** ( ) - , .

**Internet** ( ) - TCP/IP .

**PC** ( ) - Personal Computer ( ) .

**Ports** ( ) - .

**Protocol** ( ) - .

**(Log file)** - ( . log) —

# 2

## 2.1

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1. USB HID Logger

2.

3. USB HID Logger

4.

5. USB HID Logger  
sales@aggsoft.ru

6. USB HID Logger

USB HID Logger

7. **USB HID Logger** "AS IS".

8.

9. USB HID Logger

10.

USB HID Logger  
USB HID Logger.

## 2.2

shareware-

[3](#)

- 21 ;
- ;
- 100 ;

## 2.3

shareware-

Internet,

## 2.4

USB HID 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 2000 SP 4 - Windows 10 ( x86 x64, ).

#### 3.2

USB HID Logger.

, USB HID Logger

"\Programs Files\USB HID Logger"

USB HID Logger

### 4

#### 4.1

USB HID Logger

USB HID Logger " ".

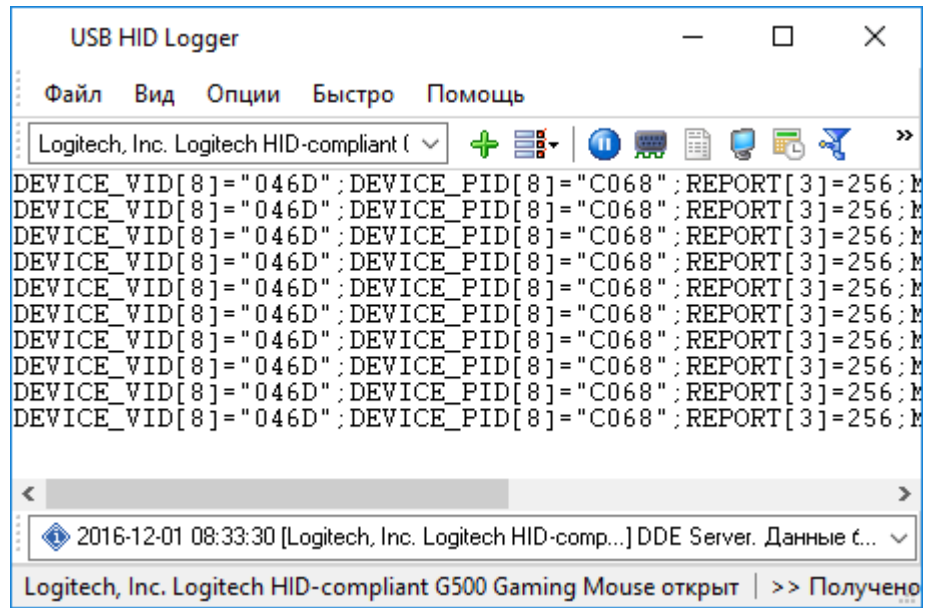
( . 1.1.1),

1.1.2)

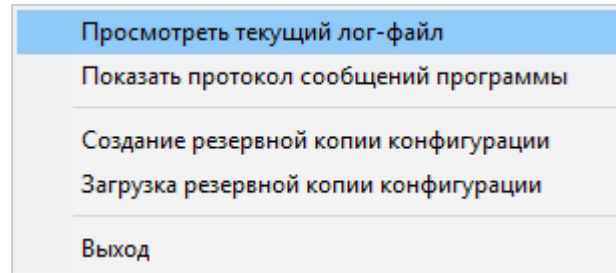
67 ("

..."),

" " ( .



. 1.1.1.



. 1.1.2.

C:\. ,

**1-2-3-4**

1.

2.

3.



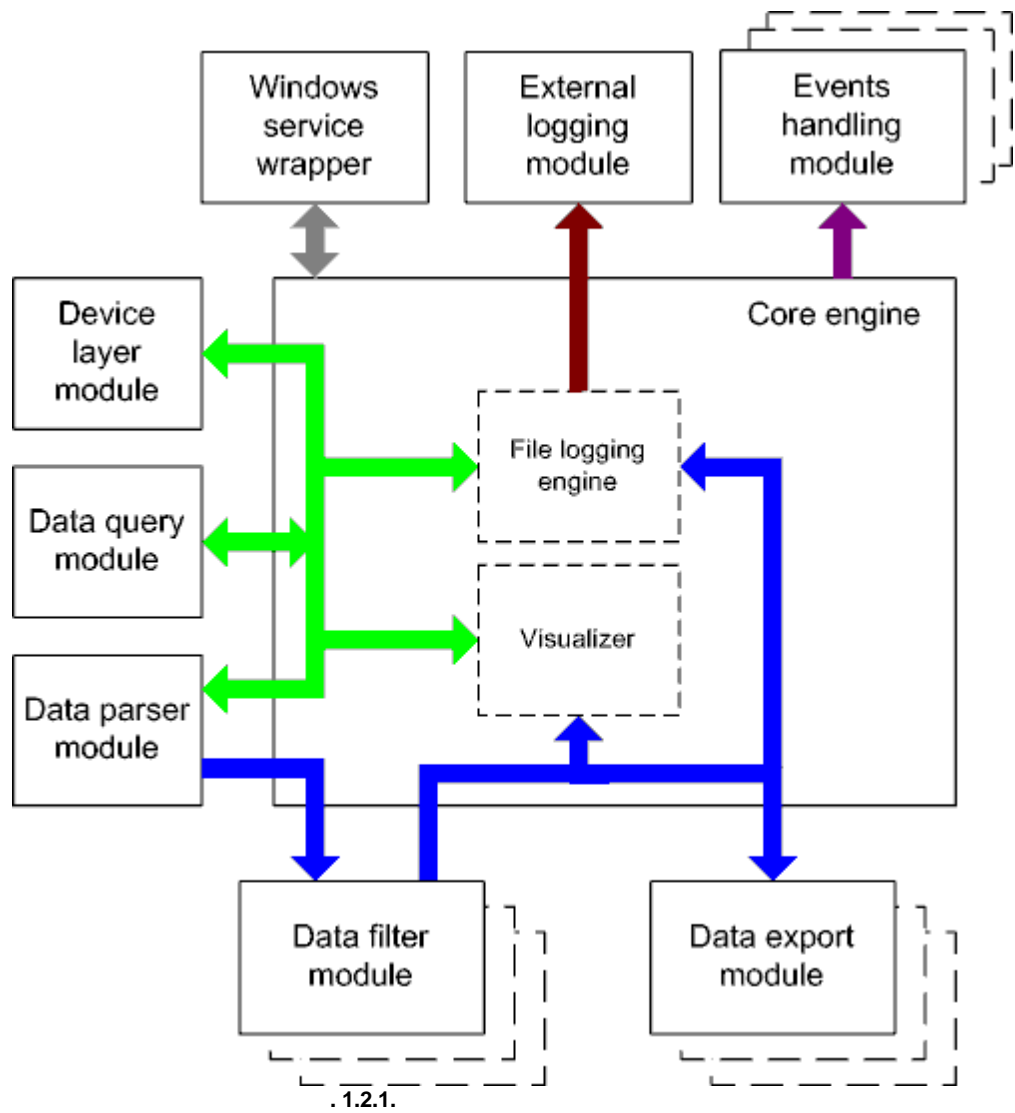
4. USB HID Logger

USB HID Logger

4.2

\_\_\_\_\_ [19] - \_\_\_\_\_ [16]  
 \_\_\_\_\_ [19] (\_\_\_\_\_.1.1.1 [4]).  
 USB HID Logger "\_\_\_\_\_[11]", \_\_\_\_\_ [30].  
 Logger \_\_\_\_\_ [22] (plug-ins), USB HID Logger. USB HID  
 "\_\_\_\_\_[22]".  
 \_\_\_\_\_ [33] (\_\_\_\_\_.1.1.1 [4]), \_\_\_\_\_

### 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\USB HID Logger

Windows x32

HKEY\_LOCAL\_MACHINE\SOFTWARE\AGG Software\USB HID Logger

3.

Ctrl+S -  
Ctrl+D -  
Ctrl+P -  
Ctrl+L -  
Ctrl+R -

Ctrl+E -  
Ctrl+M -

Windows;

4.

. . :

5.

INI

" "

6.

10

## 5

### 5.1

### USB HID

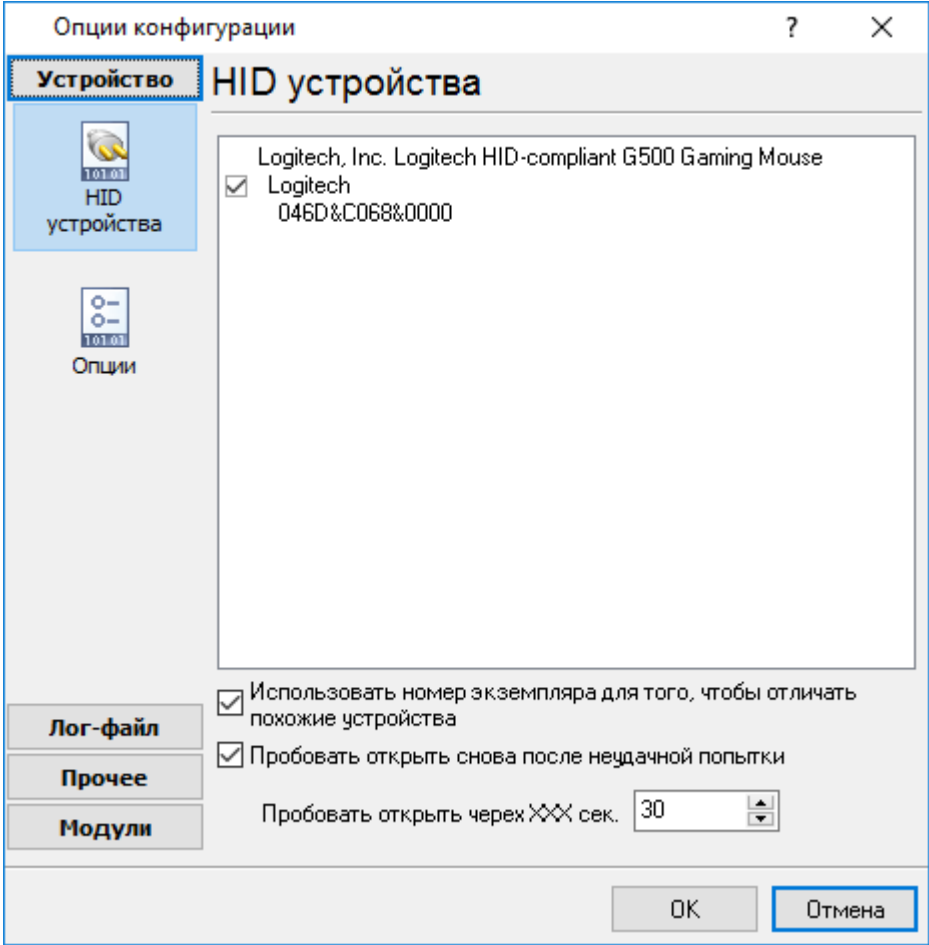
#### 5.1.1

#### USB

HID

USB

HID



.1 HID

USB  
HID  
HID

HID

5.1.2

HID

USB

USB

HID reports.

VID PID -

HID

USB  
USB

(RAW)

USB

### 5.1.3

[USB HID](#);  
[USB HID MS SQL \( - \)](#);  
[USB HID MS SQL \( \)](#);  
[USB HID MySQL](#);  
[USB HID Excel](#).

## 5.2

### 5.2.1

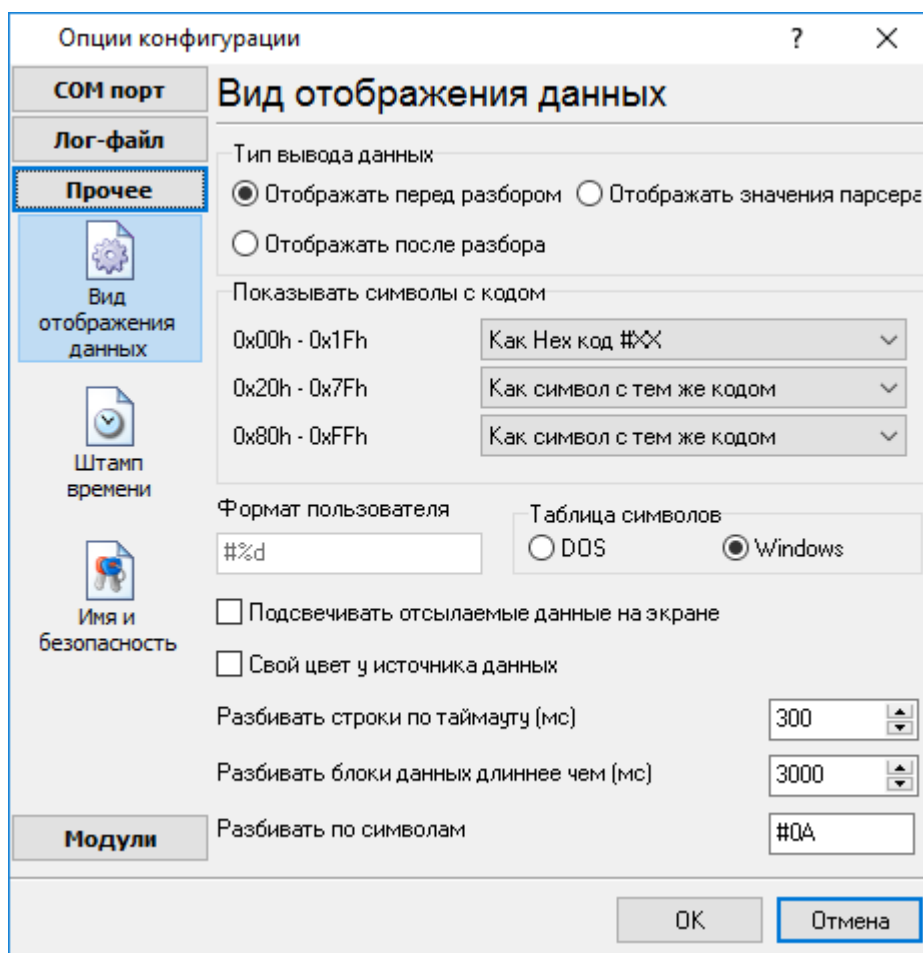
([.1.1.1](#)<sup>4</sup>)

2

(.3.1.1):

1.

2.



. 3.1.1.

" - " ( . 3.1.1)

Hex-

,%d

, %x -

: Windows DOS

(OEM).

- ,  
,  
0,  
0,  
. 3.1.1

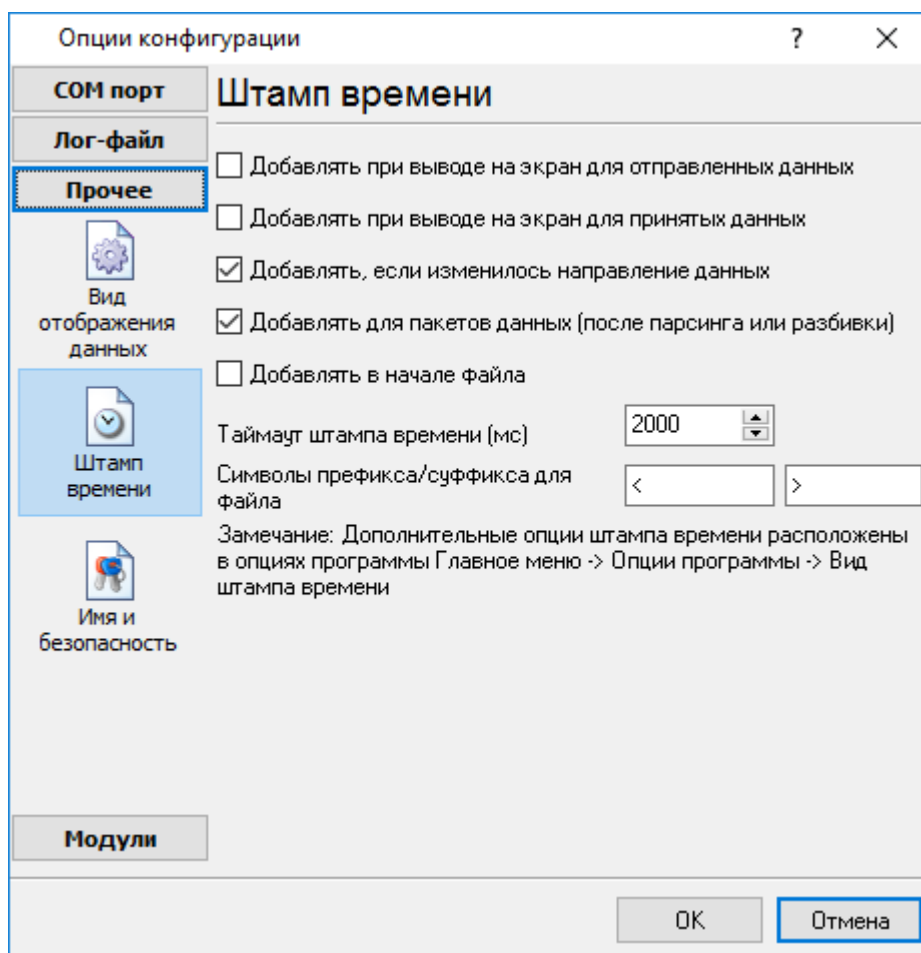
### 5.2.2

( . 3.2.1)

( )

           32.





. 3.2.1.

. :>#0D#0A

### 5.2.3

( . 3.3.1) :

-

"

"

38

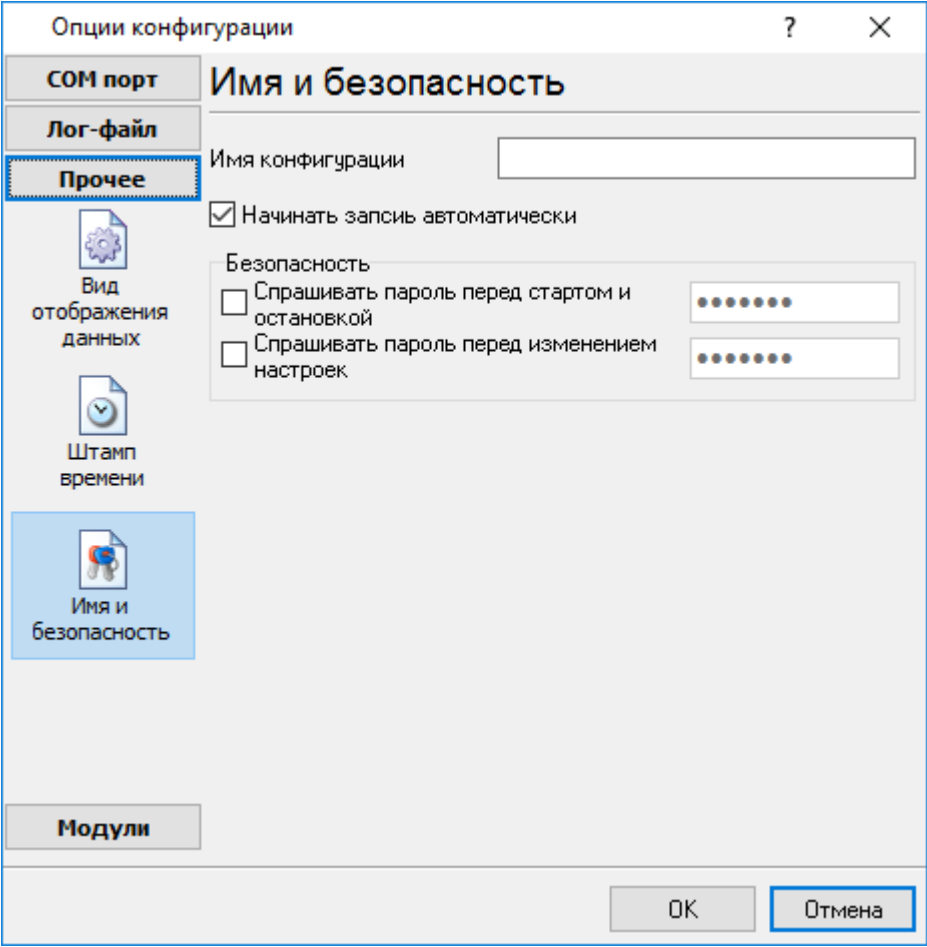
"

/

"

-

,

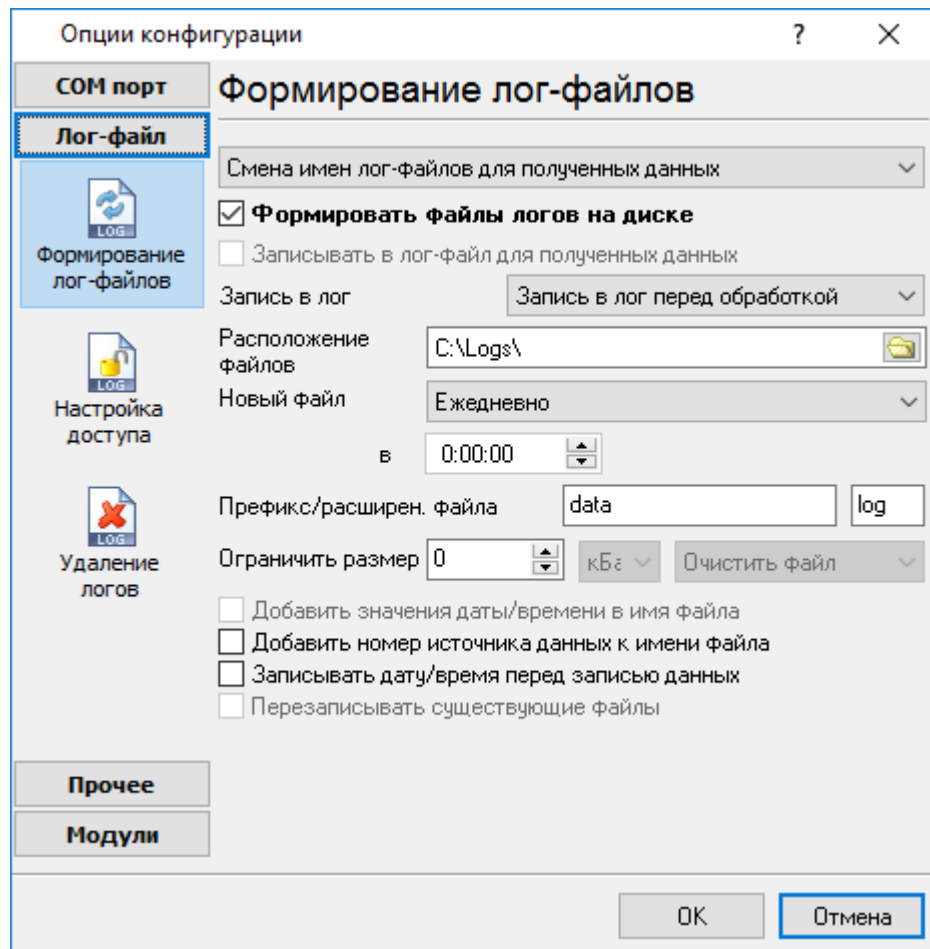


. 3.3.1.

5.3 -

5.3.1 -

( . 4.1.1).



. 4.1.1.

USB HID Logger

```

"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.

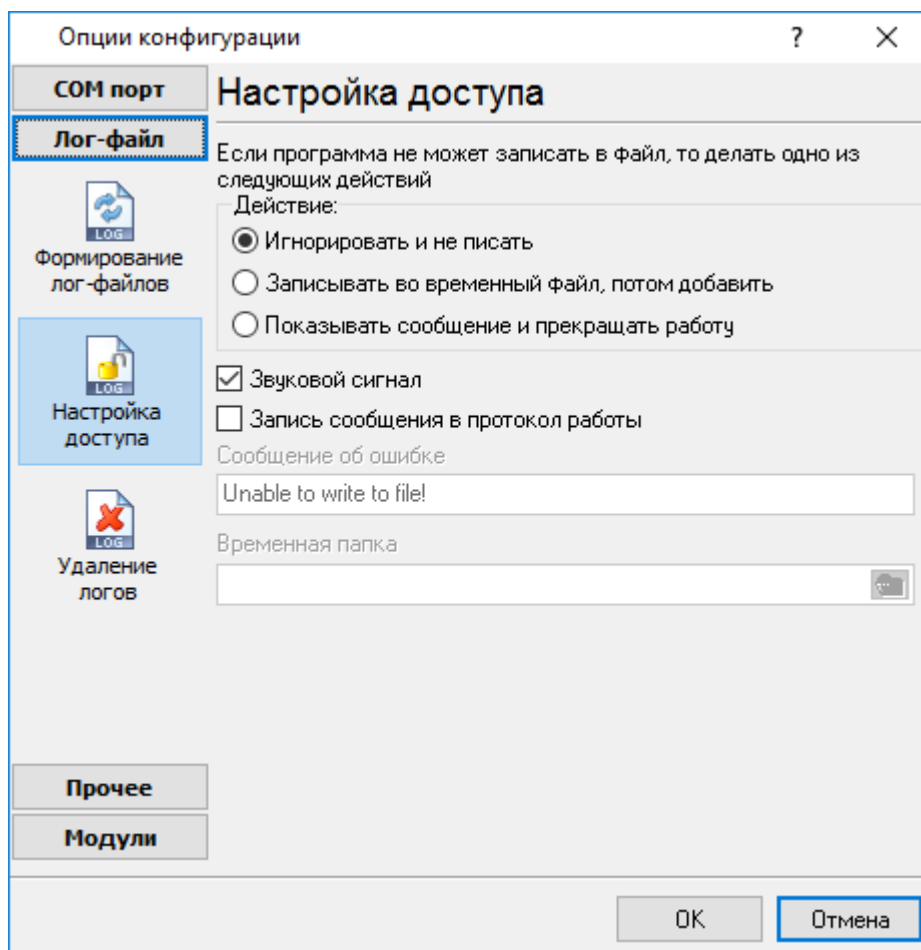
```

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

### 5.3.2

Office ( , Microsoft Word),  
Logger

Microsoft  
USB HID



. 4.2.1.

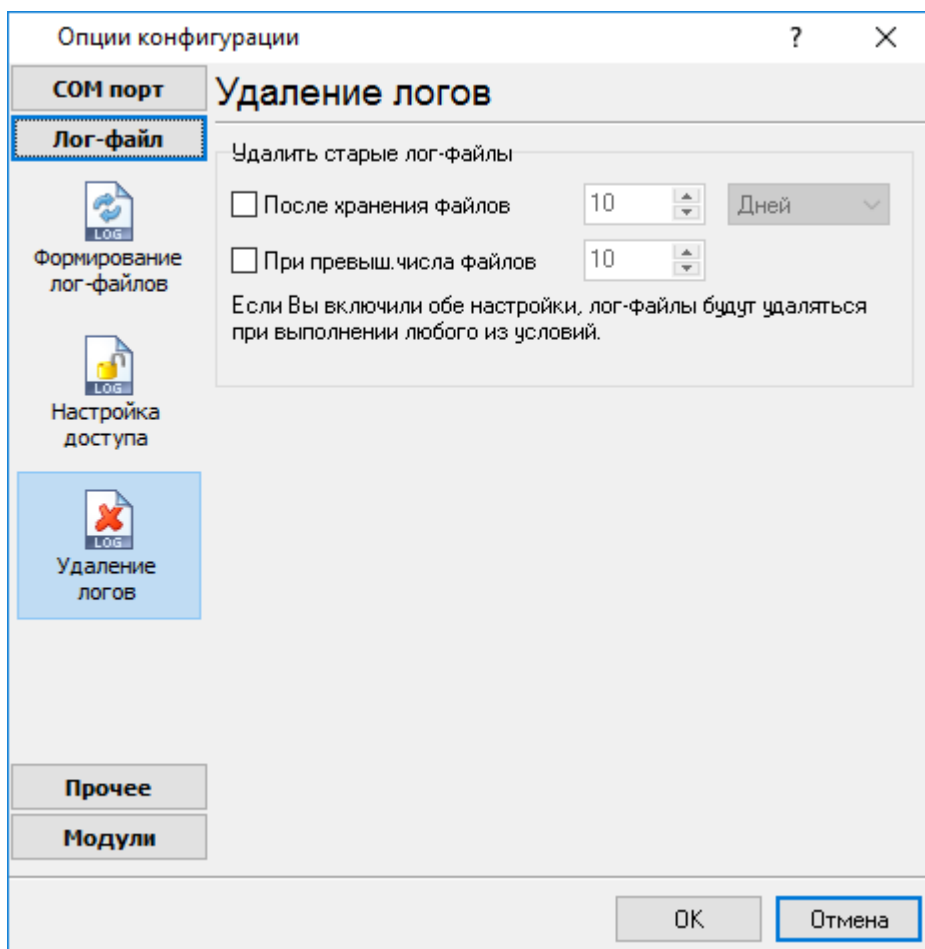
USB HID Logger

4.2.1),

- 
- 
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## 5.3.3

(рис. 4.3.1).



. 4.3.1.



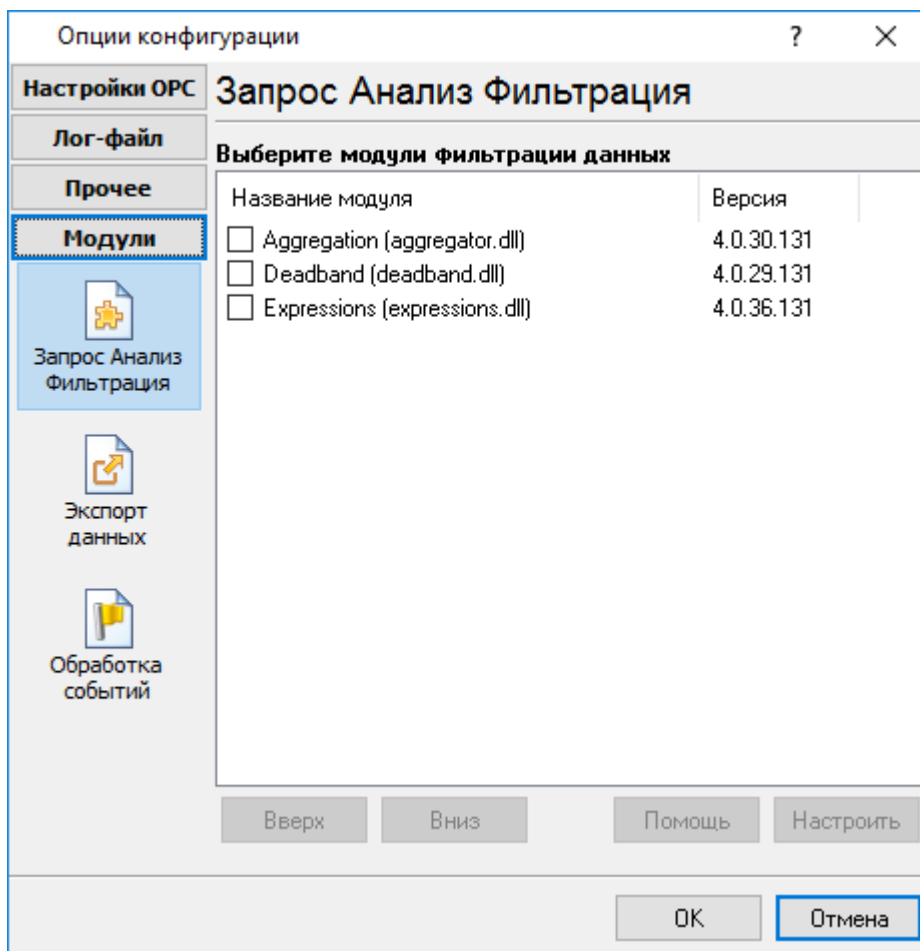
5.4

5.4.1

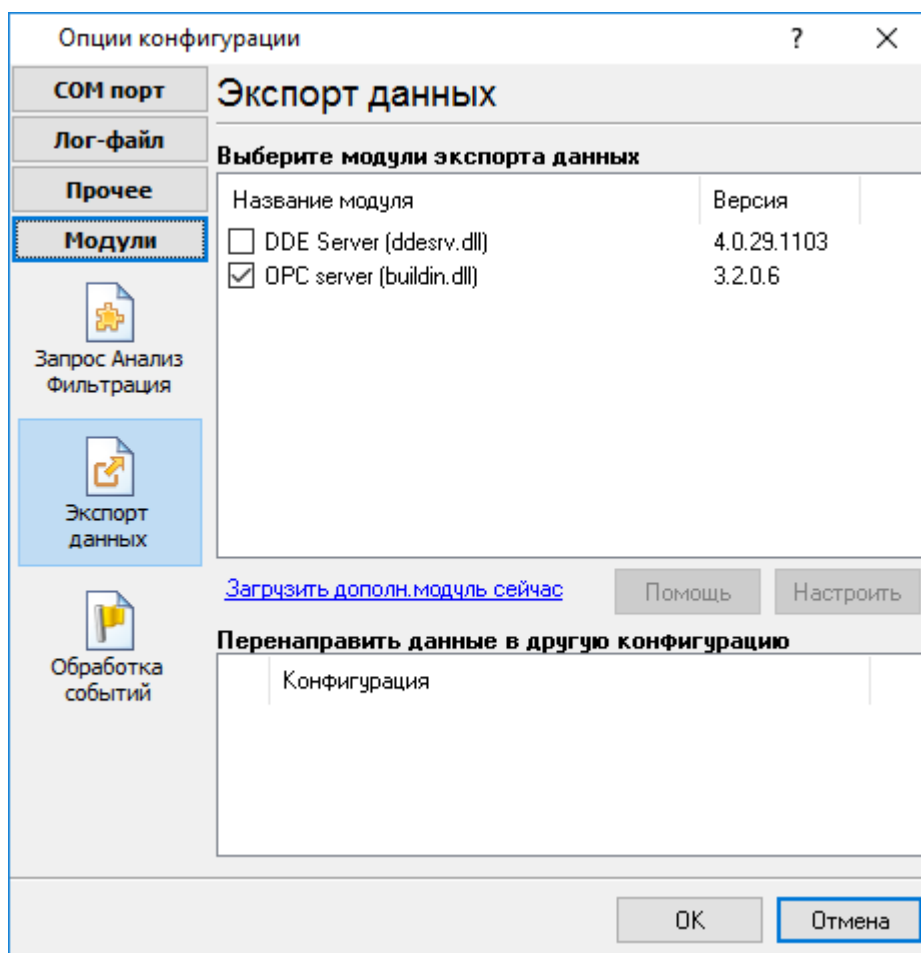
, ( , ) , " " ( . . ).

USB HID Logger :

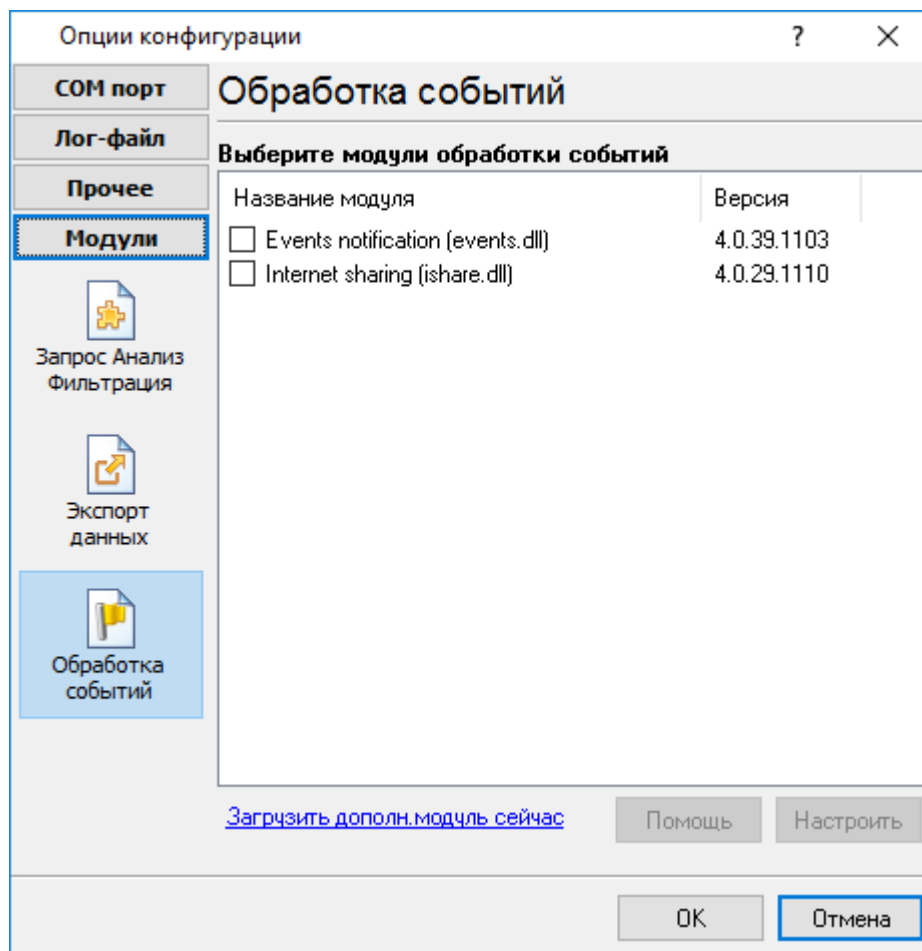
- - ;
- - , Excel ;
- ( . 5.1.3) - USB HID Logger. , " - " " , " . , , . .



. 5.1.1.



. 5.1.2.



. 5.1.3.

"OK".

### 5.4.2 OPC

USB HID Logger

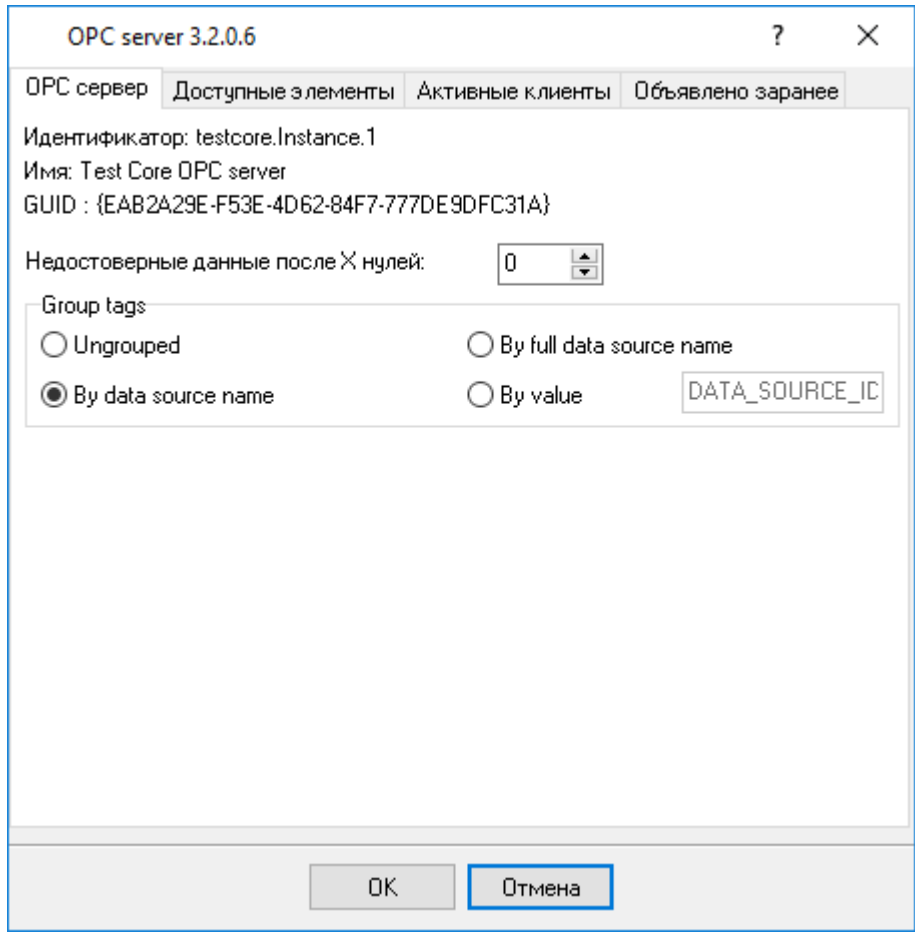
OPC

USB HID Logger

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

OPC

OPC

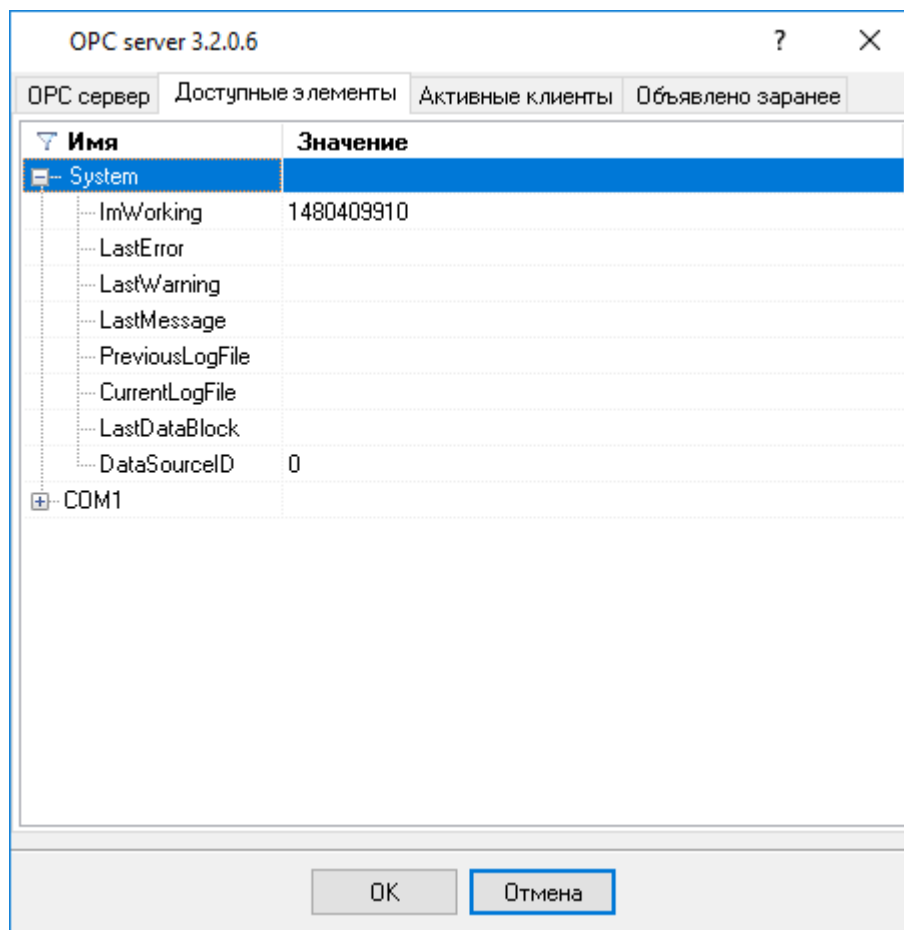


. 5.2.1. OPC

USB HID Logger,

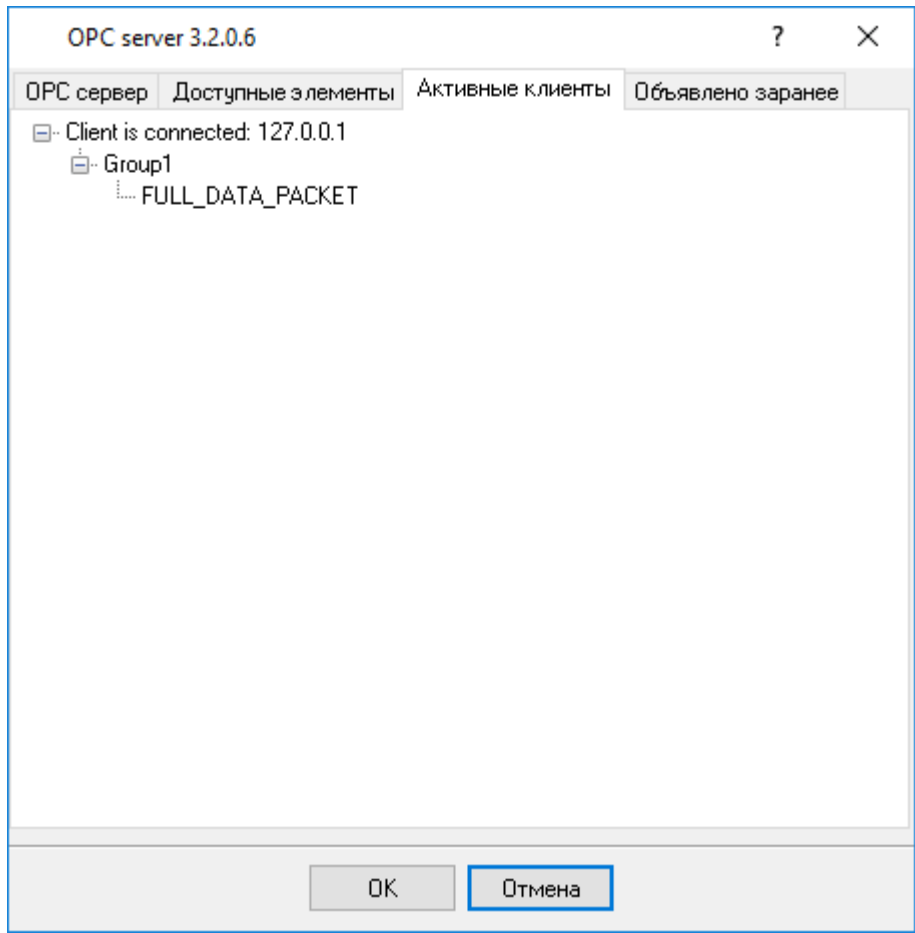
OPC ( .2).

OPC



. 5.2.2.

OPC



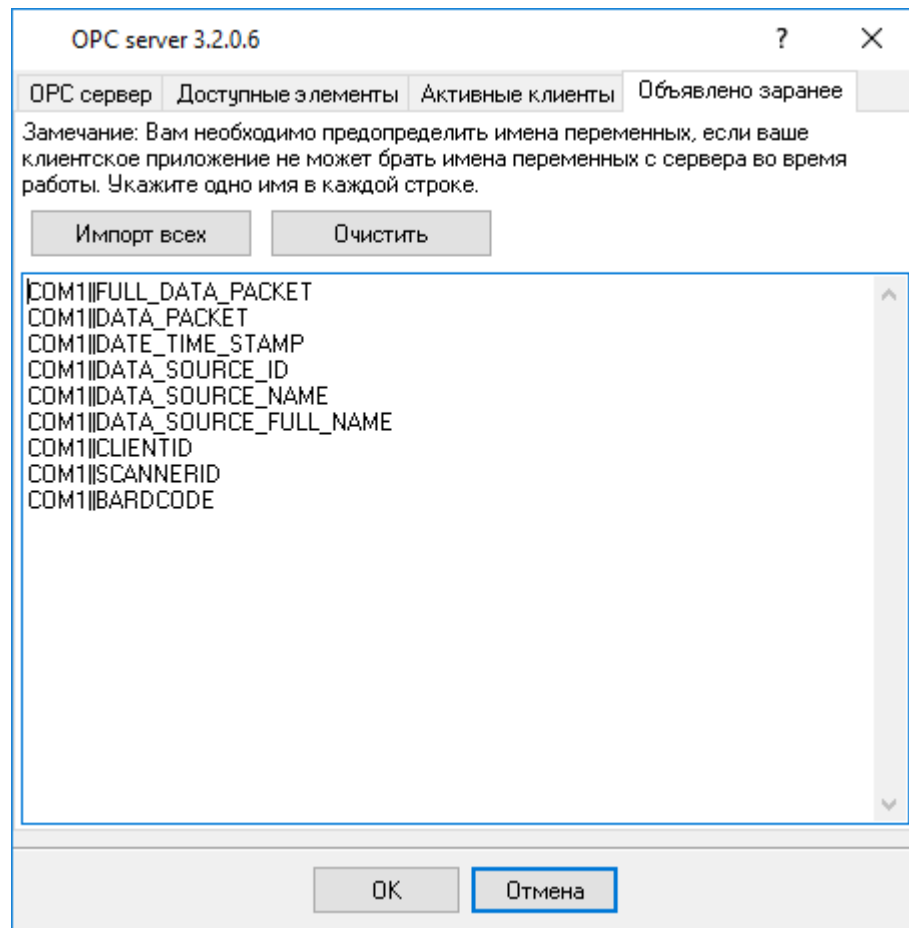
. 5.2.3.

USB HID Logger  
,  
OPC

" ". USB HID Logger

OPC  
OPC

( .4).

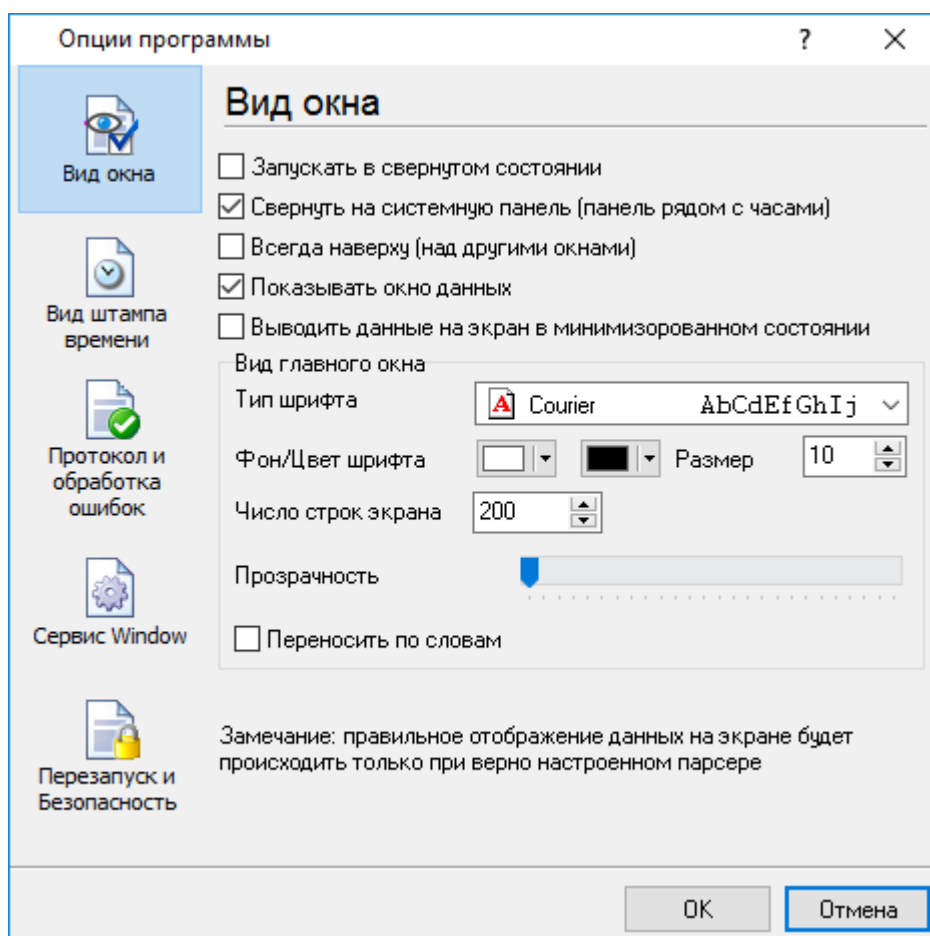


. 5.2.4.



## 5.5

### 5.5.1

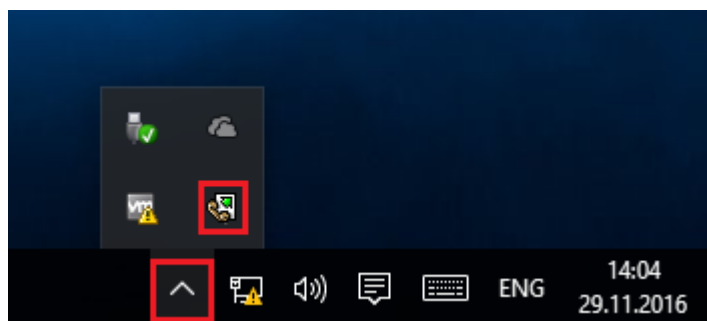


. 6.1.1.

" ( . 6.1.1) :

- USB HID Logger

( . 6.1.2) ;



. 6.1.2.

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( . 6.1.2) -

USB HID Logger

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- Windows 2000

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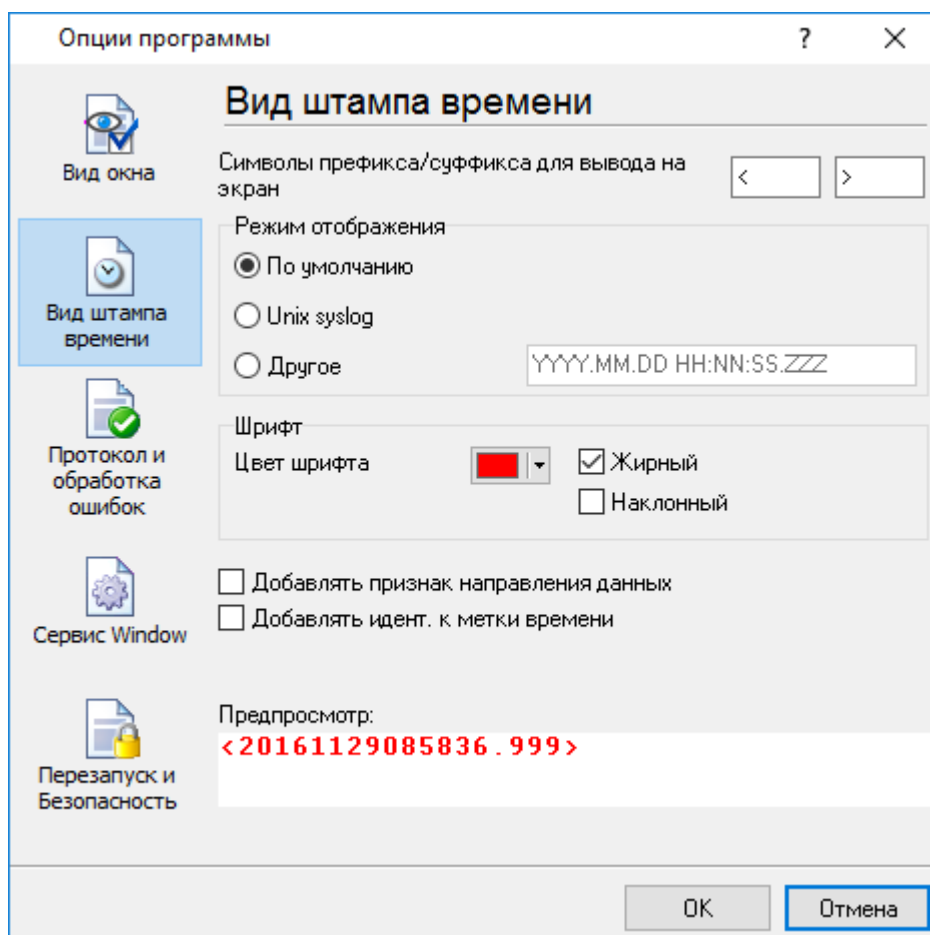
-

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## 5.5.2

( . 6.2.1)



. 6.2.1.

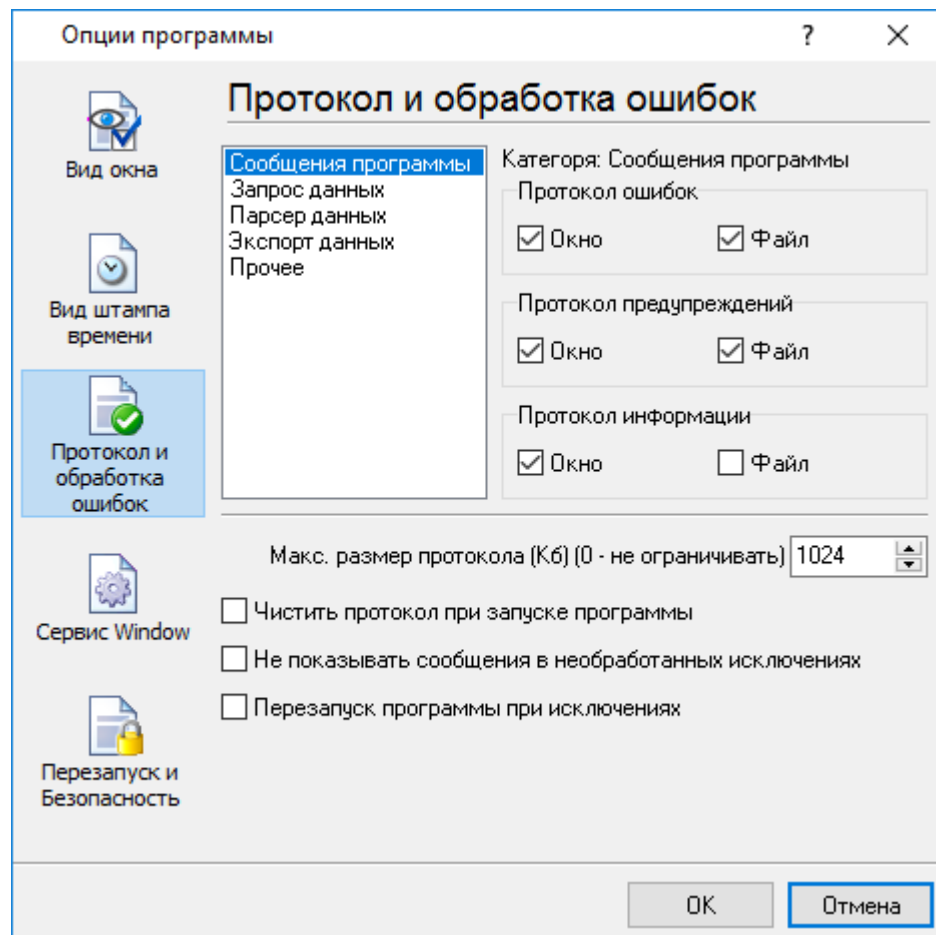
13

TX

RX

, COM1.

## 5.5.3



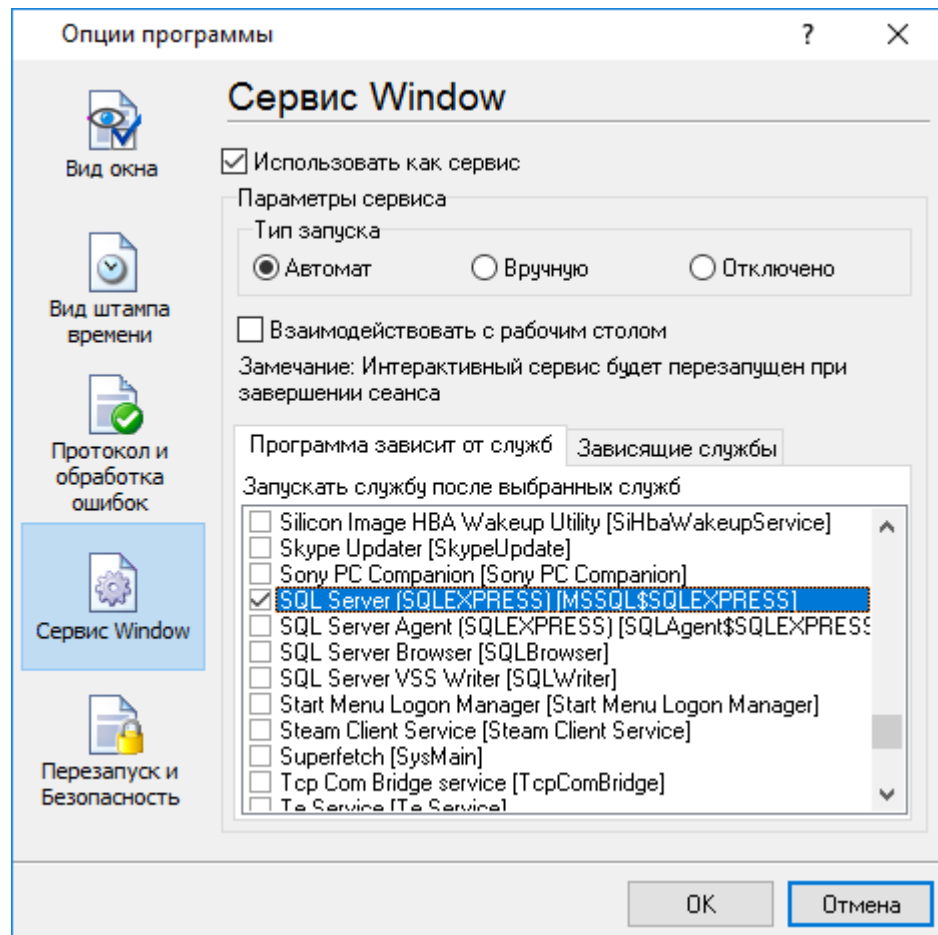
. 6.3.1.

USB HID Logger

3-

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. 6.4.1.

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

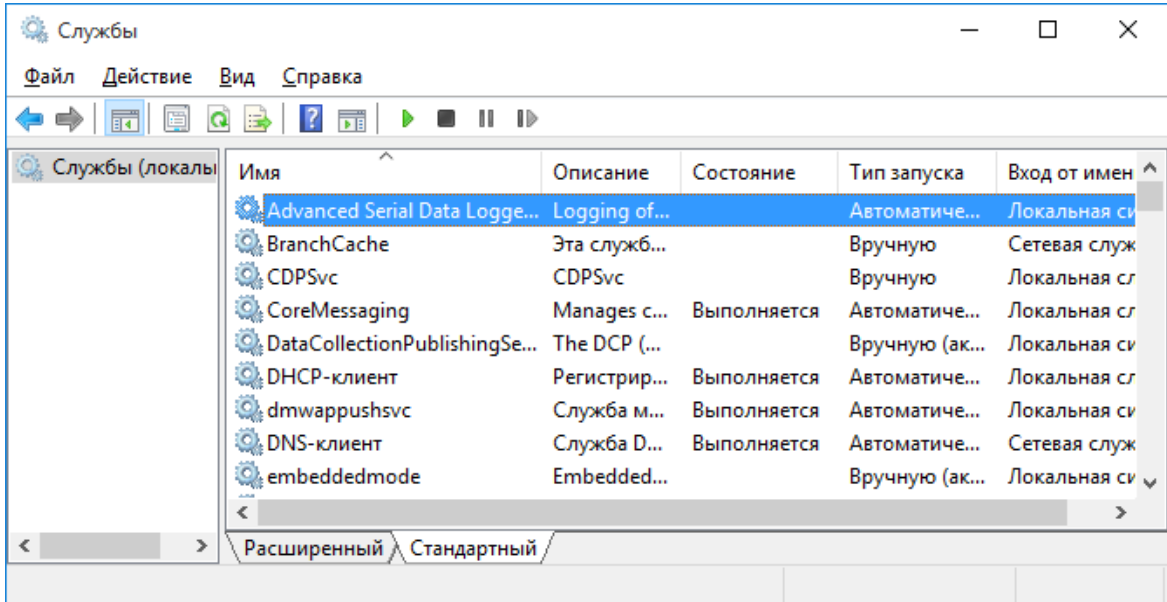
37) Windows Vista



. 6.4.2

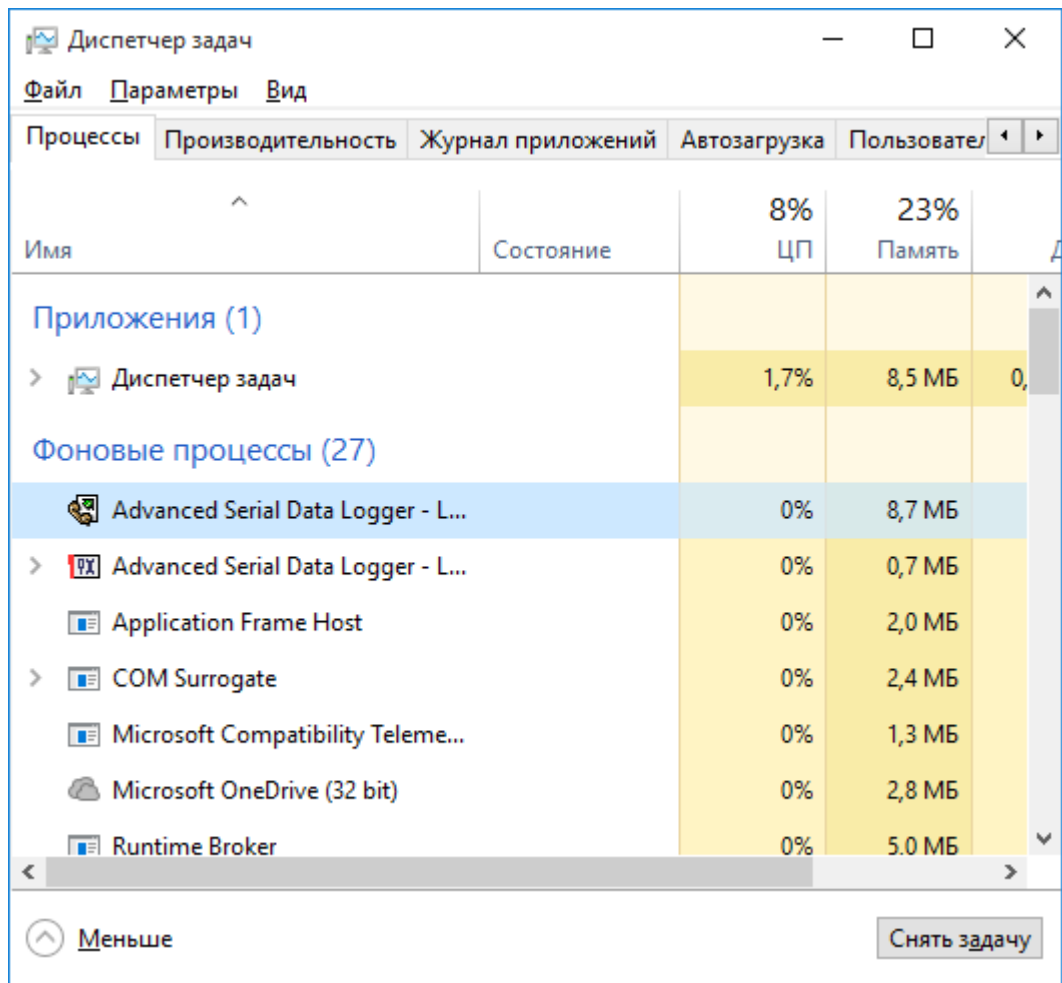
USB HID Logger, " ( . 6.4.1)

" " ( . 6.4.3).



. 6.4.3. ( Windows 2000)

usblogger.exe ( . 6.4.4).  
 USB HID Logger  
 USB HID Logger,  
 svany.exe



. 6.4.4.

usbloggersrv.exe :

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

## 5.5.4.2

## Windows Vista

Windows Vista

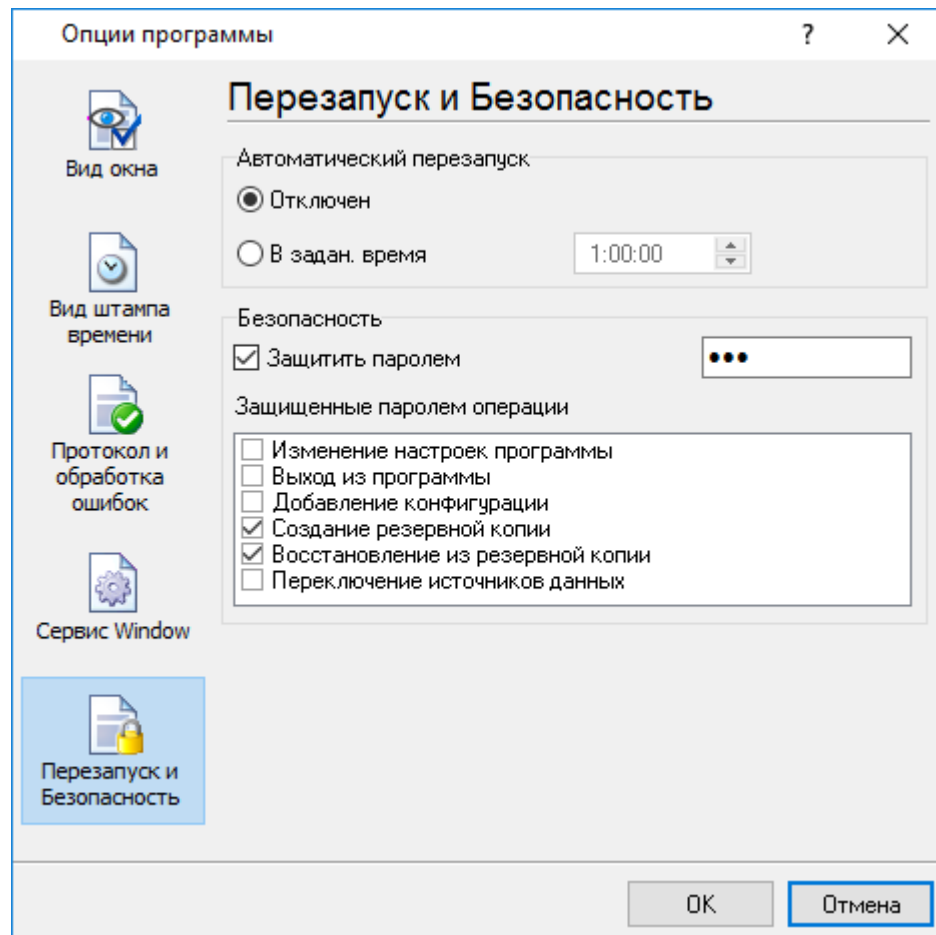


Windows.

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

5.5.5

( . 6.5.1).



. 6.5.1.

6

?

6.1

SoftIce

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