



## Advanced OPC Data Logger

**1** **1**

1 Advanced OPC Data Logger ..... 1

2 ..... 2

**2** **4**

1 ..... 4

2 ..... 5

3 ..... 5

4 ..... 6

**3** **6**

1 ..... 6

2 ..... 6

**4** **6**

1 ..... 6

2 ..... 8

3 ..... 9

4 ..... 10

5 ..... 10

**5** **11**

1 OPC ..... 11

    OPC ..... 11

        "Cron" ..... 22

2 ..... 24

    ..... 24

        ..... 26

            ..... 28

3 - ..... 29

    - ..... 29

        - ..... 32

            ..... 34

    CSV - ..... 35

4 ..... 35

    ..... 35

5 ..... 39

    ..... 39

        ..... 41

            ..... 42

		II
	<b>Windows 2000</b>	43
		43
	Windows Vista	46
		47
<b>6</b>	<b>?</b>	<b>48</b>
1		48

# 1

## 1.1 Advanced OPC Data Logger

OPC (OLE for Process Control) -

OPC Data Logger

Oracle ODBC , DDE, Excel , MSSQL, MySQL, Access, OPC Data Logger , Excel OPC / SCADA.

Advanced OPC Data Logger:

- OPC OPC OPC
- OPC DA1, DA2.
- OPC
- MS Excel. MS Excel;
- (MS SQL, Oracle, MS Access, dBase MSSQL, MySQL, ODBC-);
- DDE OPC . Advanced OPC Data Logger ;

- ; ,
  - ;
  - ;
  - Windows 2000+,  
x86 x64.
  - Windows. Advanced OPC Data Logger  
Windows 2000+,
  - !  
Advanced OPC Data Logger,
- ! : <http://www.aggsoft.ru/>  
: <http://www.aggsoft.ru/opc-data-logger.htm>

## 1.2

- ASCII** - ASCII -  
Windows  
ASCII. ASCII \*.TXT (  
README.TXT).
- Binary File** - ASCII ( 0 255).
- Bytes** ( ) - , , .
- Bit** ( ) - : 0 1. 8  
8 ( ) .
- Cable** ( ) - , .
- Client/Server** ( / ) - ,  
( , , . . )  
( ) .
- DA (data access)** - .
- DNS (Domain Name System)** - DNS  
( TCP/IP) . DNS

( ) IP .  
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 .  
IP . IP  
: 198.63.211.24.

**LAN (Local Area Network)** -

**NIC, Network Interface Card** ( ) -

nuBus, .) ( , 10baseFL). (PCI, turbochannel,

**OPC (OLE for Process Control)** –

**OPC Alarms and Events** - OPC

**OPC Data Access** - OPC

**OPC DA** - . OPC Data Access.

**OPC Historical Data Access** - OPC

**OPC HDA** - . OPC Historical Data Access.

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

**Ports** ( ) -

**Protocol** ( ) -

**(Log file)** - , ( . log) —

## 2

### 2.1

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All Rights Reserved

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



## 2.4

Advanced OPC 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 2000 SP 4 - Windows 10 ( x86 x64, ).

### 3.2

Advanced OPC Data Logger.

, Advanced OPC Data Logger "Programs Files\Advanced OPC Data Logger"

Advanced OPC Data Logger

## 4

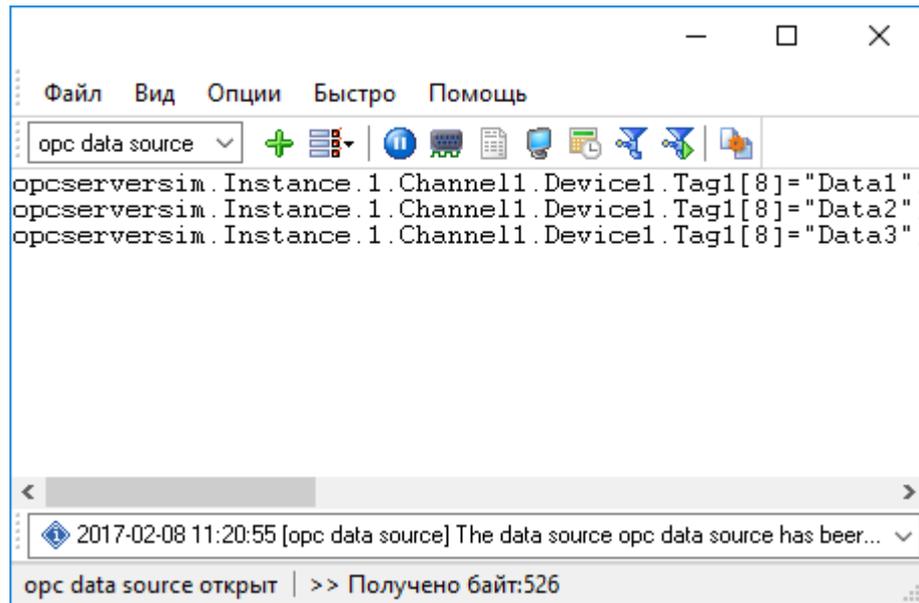
### 4.1

Advanced OPC Data Logger

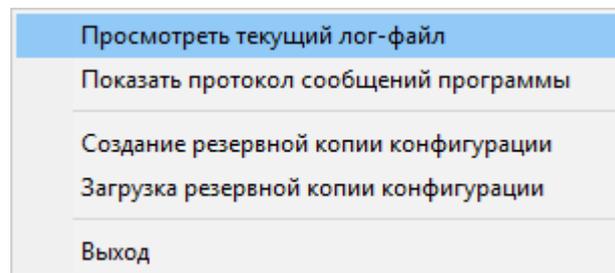
Advanced OPC Data Logger " ".

( . 1.1.1),

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



. 1.1.1.



. 1.1.2.

C:\. ,

**1-2-3-4**

1.

" " [11] OPC . " OPC"

2. ( ).

" " ( )  
).

3. , [35]

" " , ,  
,

4. Advanced OPC Data Logger ,

Advanced OPC Data Logger , ,

## 4.2

,  
- ,

[29]

[32]

\_\_\_\_\_

( . 1.1.1 [6] ).

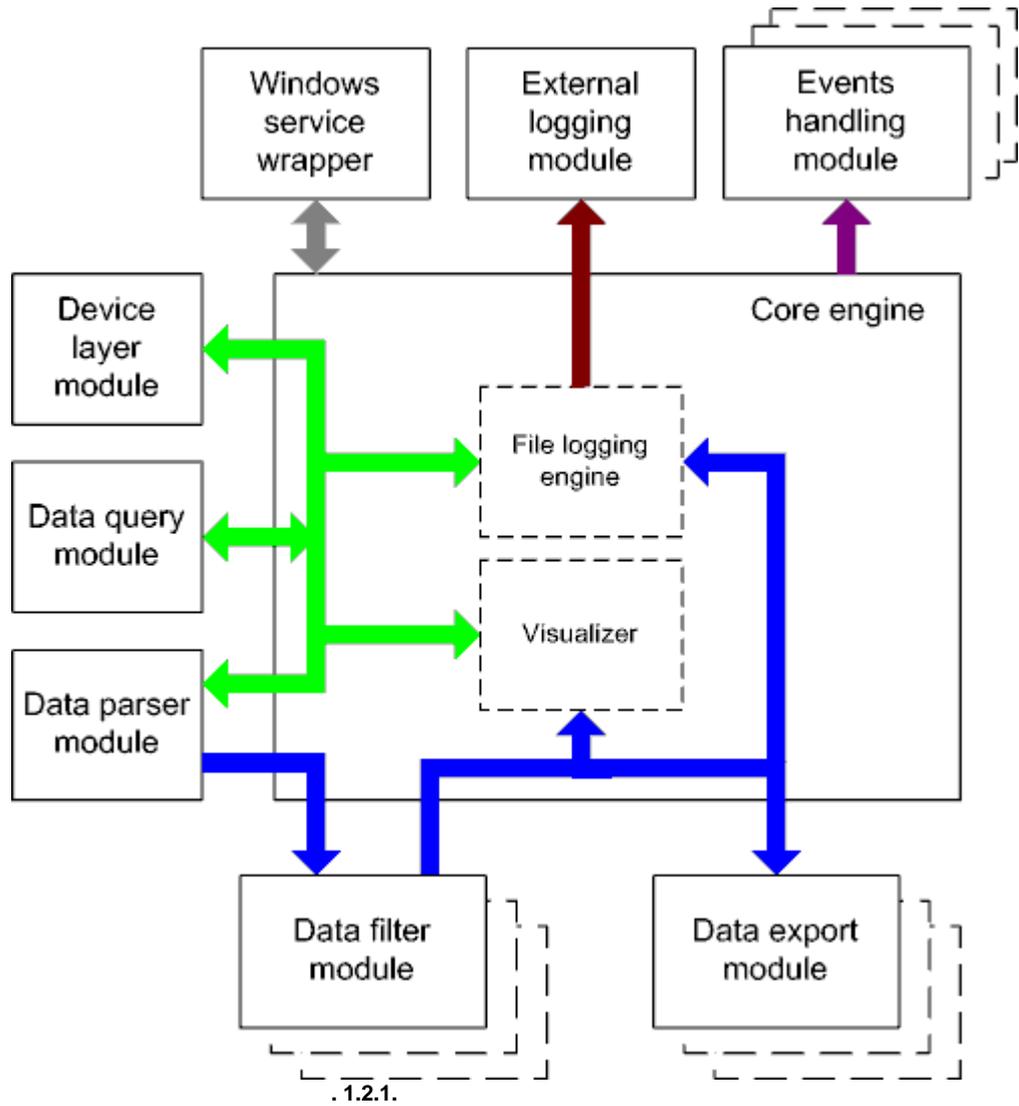
" [24] ",  
Advanced OPC Data Logger

[39]

Advanced OPC Data Logger  
Advanced OPC Data Logger. [35] (plug-ins),

" [35] "

### 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. " " " " Windows.
2. regedit.exe :  
 Windows x64  
 HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\AGG Software\Advanced OPC Data  
 Logger  
 Windows x32  
 HKEY\_LOCAL\_MACHINE\SOFTWARE\AGG Software\Advanced OPC Data Logger

```

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

```

4.      ,
      . : -
  
```

```

5.      INI
      "      "
  
```

```

6.      10
      : -
  
```

## 5

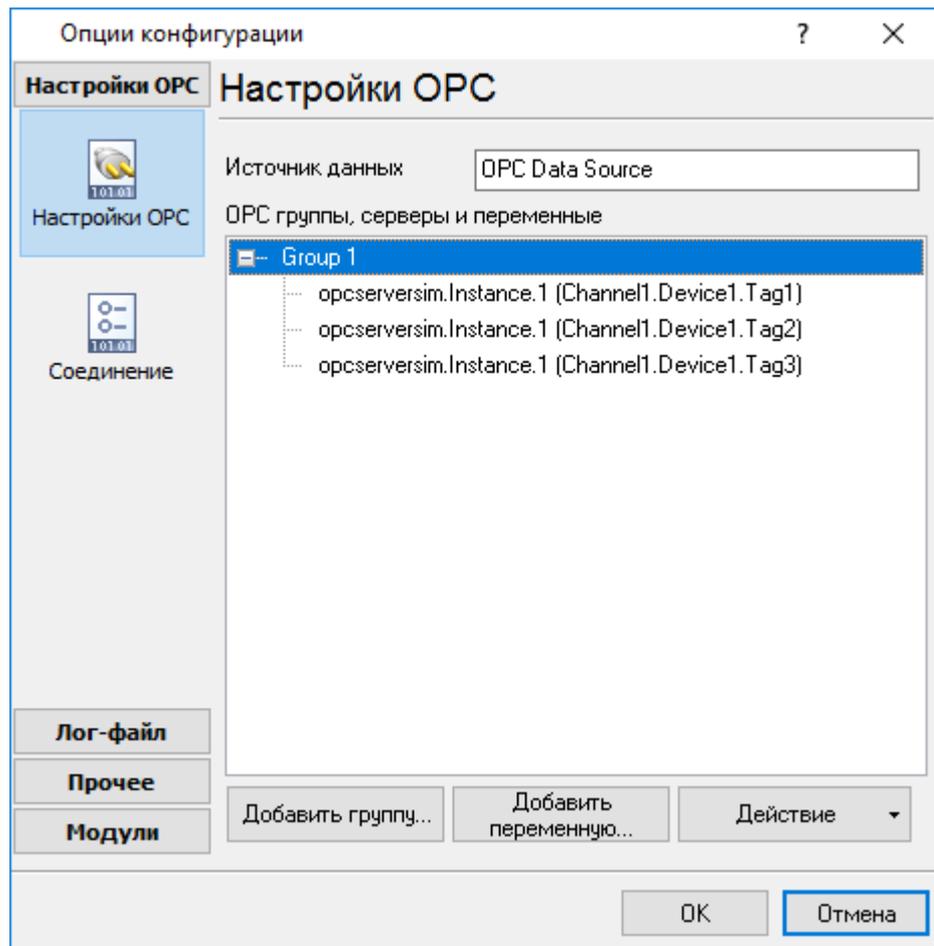
### 5.1 OPC

#### 5.1.1 OPC

```

      ,
      .
      OPC.
      ,
      OPC
      , OPC
      OPC
      :
1.      "
      ,
      (
      ),
      "
      "      NULL
      :
      NULL
  
```



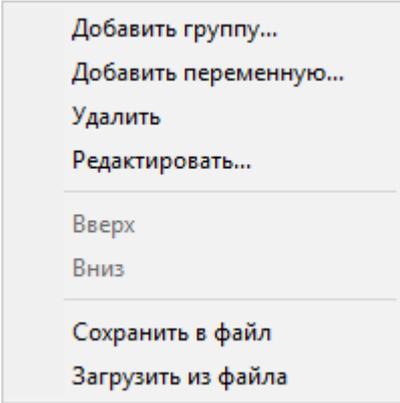


. 2.4.1. OPC

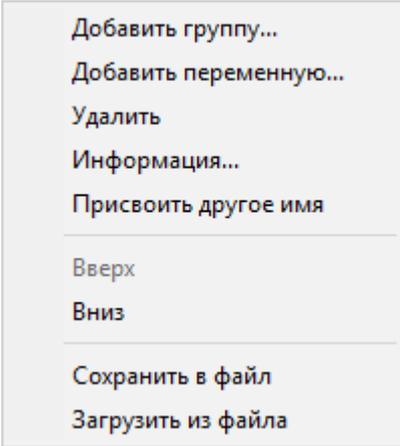
OPC

OPC

OPC



. 2.4.2.



. 2.4.3.

" - " " " "OPC",  
" ( . 2.4.2 . 2.4.3).  
" ...",  
( . 2.4.4).

Свойства группы X

Имя

Частота обновления (мс)         Мертвая зона (%)

Активно       Экспорт только достоверных данных

Ожидать обновления всех переменных       Экспорт метки даты/времени

Добавлять имя сервера к имени переменной       Метки времени в локальном времени

Экспортировать всю группу       Экспорт качества переменной

Экспорт всех изменившихся переменных одной строкой       Экспорт имени переменной

Экспорт за фикс. интервал       Не экспортировать NULL значения

Экспорт в

Использовать период обновления

Время суток

Время в формате планировщика Unix Cron

ДН  М  Д  

Ч  МИН  СЕК

## . 2.4.4.

XXX,    XXX -

( ) -

OPC

, . . . 1

- 1000

(%)-

- 0

(

),

(

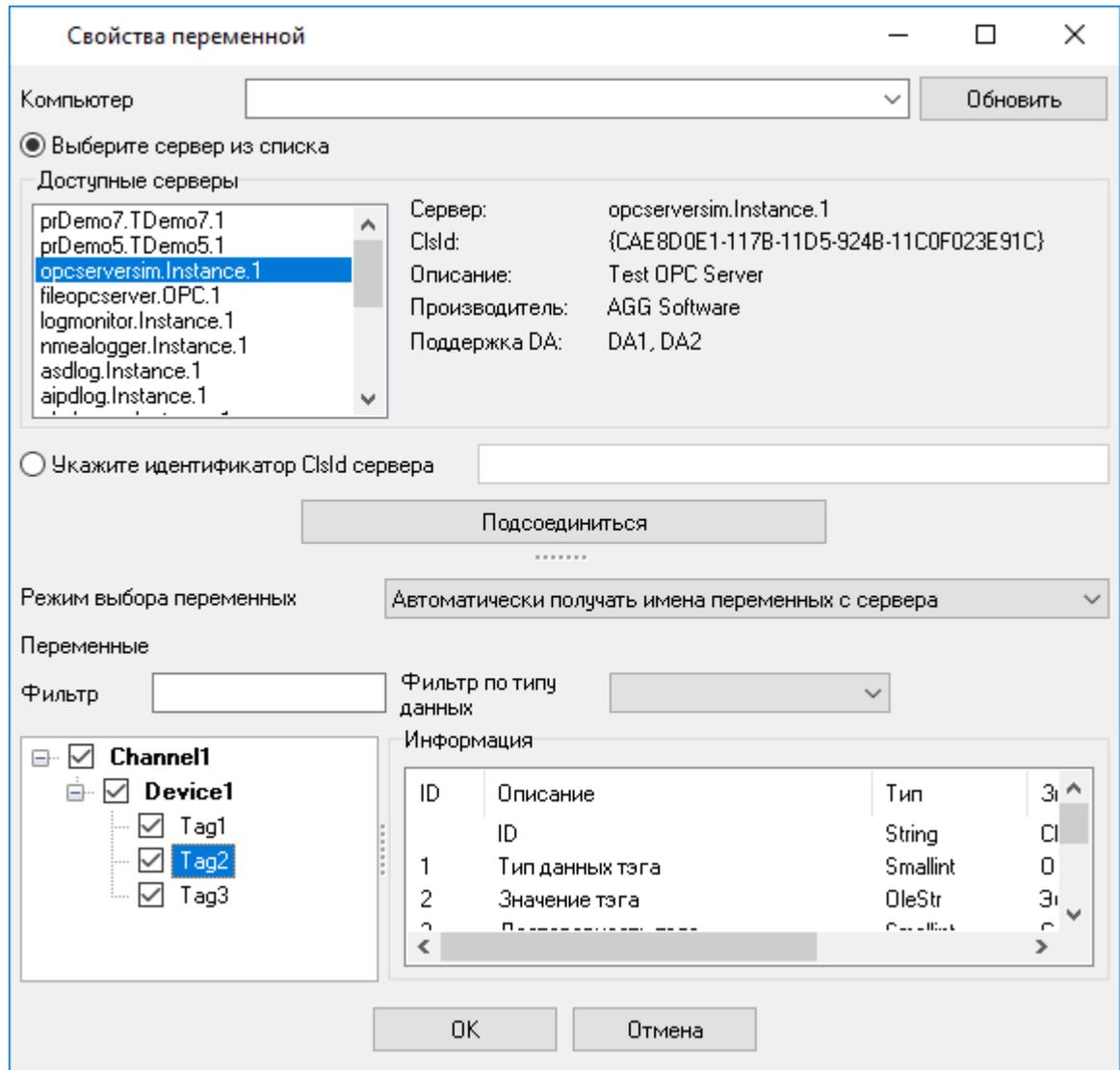
).



"OK"

" OPC "

( . 2.4.5).



. 2.4.5.

OPC

OPC

( )

DA -

DA.

- 1.
- 2.

( . 2.4.1)

"OK"

( . 2.4.6),

- Выбрать все
- Очистить все
- Инvertировать выбор

---

- Скопировать выбранные переменные для ручного редактирования

. 2.4.6.



"OPC ...",  
 (. 2.4.4).  
 "OK"  
 "11"

"OPC ...",  
 "OK" -  
 1: /

2:  
 "OPC ..."

```

" - " " " "OPC " " "
:

```

**OPC HDA**

```

OPC HDA
30
( . 2.4.1)

```

**OPC AE**

```

OPC AE
( . 2.4.7):
:
:
* -
? -
:

```

```

Simulated Event:*
Simulated Item Creation Event:*
aaaa :: :*
*:*

```

\*:\*

**OPC UA DA**

opc.tcp://login:password@127.0.0.1:10000/url

127.0.0.1 - IP

10000 - IP

login:password - ( )

" " OPC

( LDS GDS , IP 4840).

" LDS " ( . 2.4.1).

:

- (None).
- (Sign).
- (Sign&Encrypt).

:

- Basic128Rsa15
- Basic256
- Basic256Sha256

OPC

### 5.1.2 "Cron"

Cron- - , ( Unix) cron- ,

:

< >< >< >< \_ >< >< \_ >

\* ( )

, " " - ?.

, ( , 1,3,7)

( , 1-5).

(\*)

, 0-23/2 " " /

(

0,2,4,6,8,10,12,14,16,18,20,22). \* /4 " " ,

. 1-30/3 - , 1,4,7,10,13,16,19,22,25,28.

" " " " (Jan, Feb, ... , Dec) (Mon, Tue, ... , Sun)

: < >

*****	
59 23 31 12 5	,
59 23 31 Dec Fri	- ( , )
45 17 7 6 *	7- 17:45
0,15,30,45 0,6,12,18 1,15,31 * 1-5 *	00:00, 00:15, 00:30, 00:45, 06:00, 06:15, 06:30, 06:45, 12:00, 12:15, 12:30, 12:45, 18:00, 18:15, 18:30, 18:45, 1- , 15- 31-
*/15 */6 1,15,31 * 1-5	00:00, 00:15, 00:30, 00:45, 06:00, 06:15, 06:30, 06:45, 12:00, 12:15, 12:30, 12:45, 18:00, 18:15, 18:30, 18:45, 1- , 15- 31- ( )
0 12 ** 1-5 (0 12 ** Mon-Fri)	
*** 1,3,5,7,9,11 *	, , , ,
1,2,3,5,20-25,30-35,59 23 31 12 *	23:01, 23:02, 23:03, 23:05, 23:20, 23:21, 23:22, 23:23, 23:24, 23:25, 23:30, 23:31, 23:32, 23:33, 23:34, 23:35, 23:59
0 9 1-7 * 1	, 9
0 0 1 **	, ,
* 0-11 **	
*** 1,2,3 *	,
*** Jan, Feb, Mar *	,
0 0 ***	
0 0 *** 3	

cron-

"?". , . . .

: - , ,

, :

??\*\*\*\*

" ( " , , ) - , , 8:25,  
:

25 8 \* \* \* \*

:

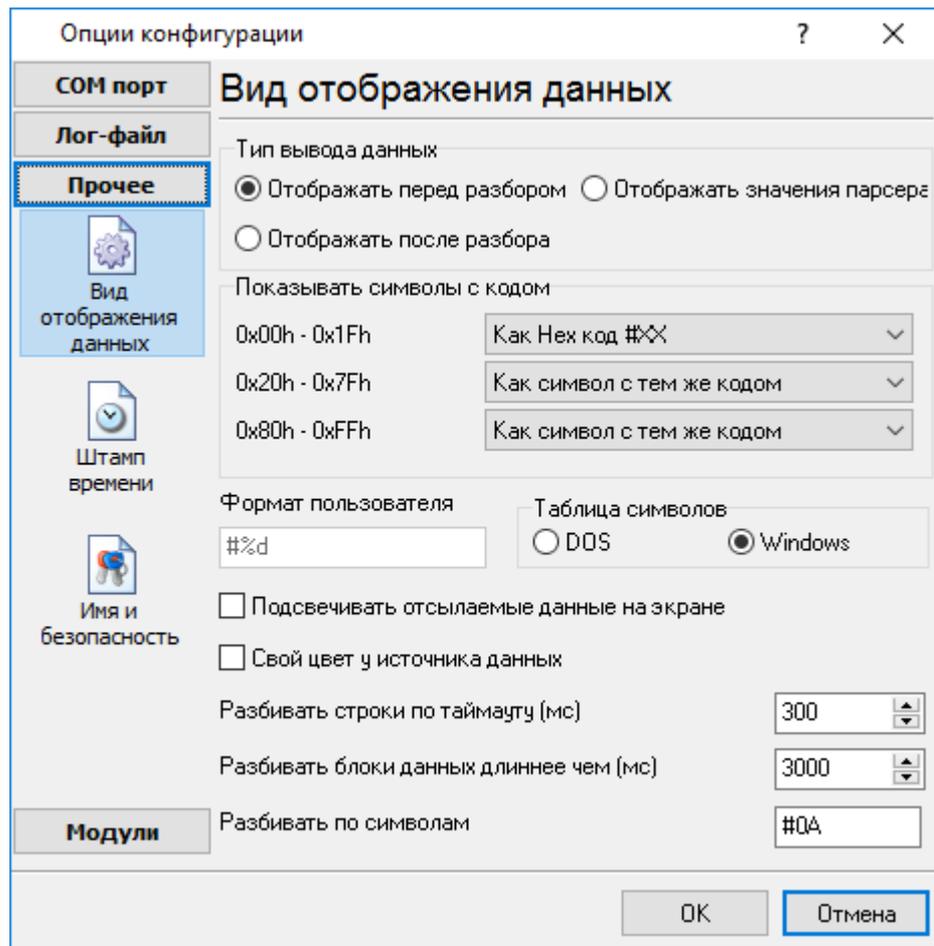
- ? \* \* \* \* - ( , 10:15)
- ? \* \* \* \* - : 11:15, 12:15, 13:15 . . ;
- \* ? \* \* \* \* - ;
- \*/5 ? \* \* \* \* - ( , )

## 5.2

### 5.2.1

([.1.1.1](#)<sup>6b</sup>) 2 ( . 3.1.1):

- 1.
- 2.



. 3.1.1.

" - " ( . 3.1.1)

Hex-

,%d

, %x -

: Windows DOS

(OEM).

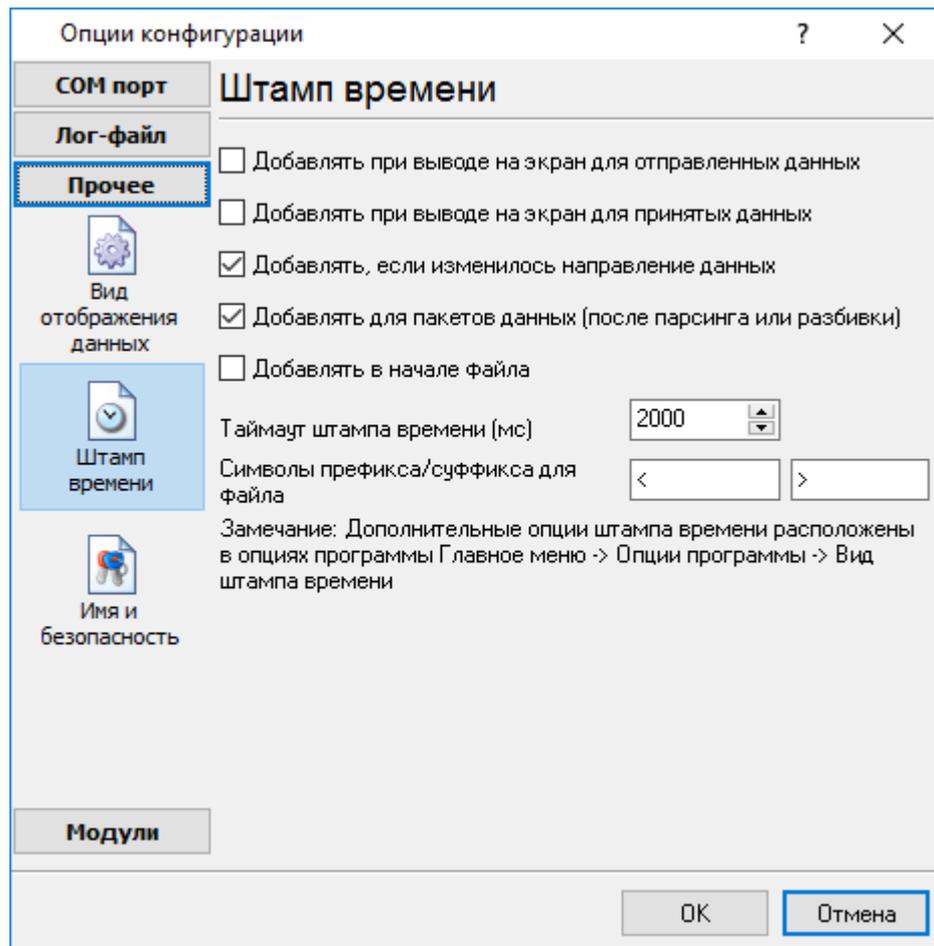
- ,  
.  
- ,  
, 0,  
- ,  
0,  
- ,  
,  
, . 3.1.1

**5.2.2**

( . 3.2.1)

( )



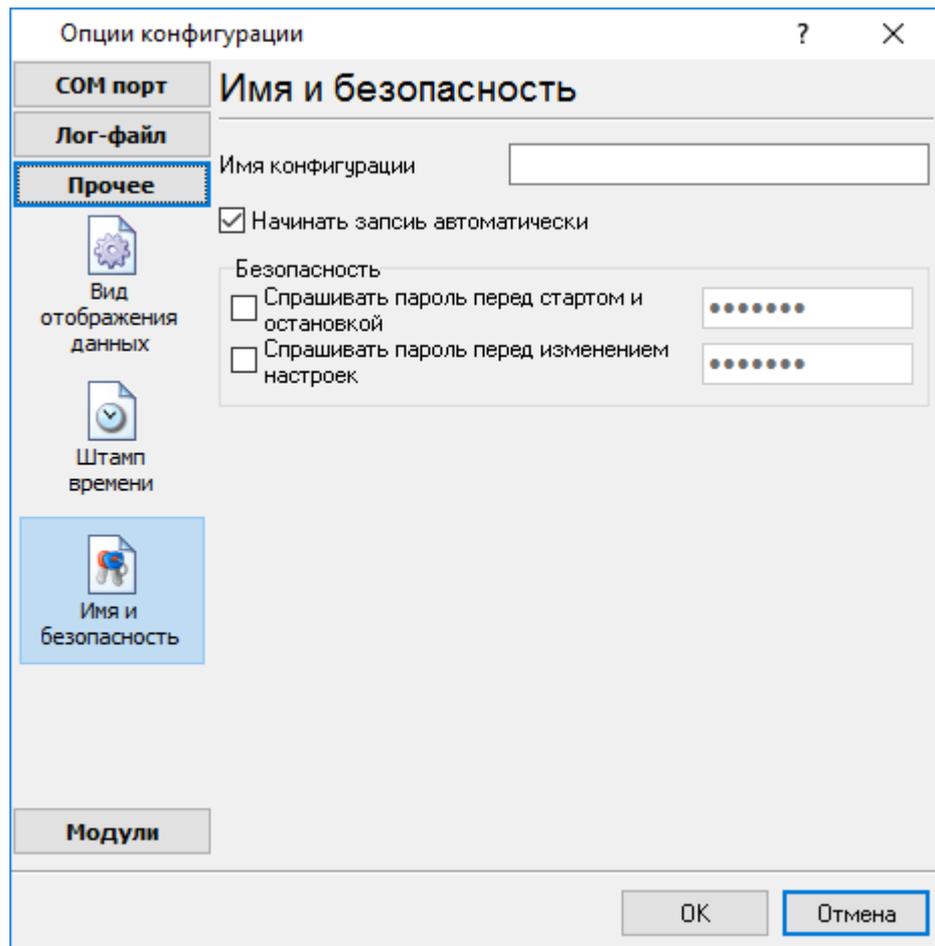
. 3.2.1.

:>#0D#0A

### 5.2.3

( . 3.3.1)

-  
.  
-  
.  
"  
"  
,  
47,  
"  
/  
"  
-  
.  
-  
.

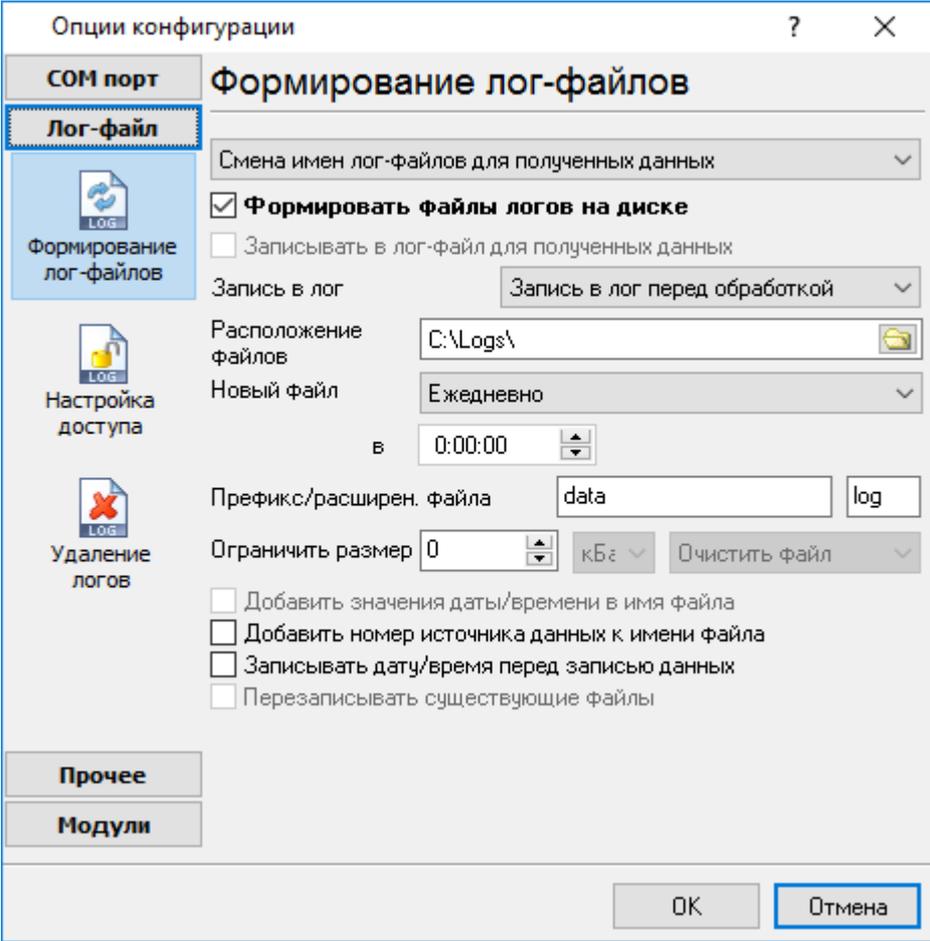


. 3.3.1.

## 5.3

### 5.3.1

( . 4.1.1).



. 4.1.1.

Advanced OPC Data 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.

/

, COM1-

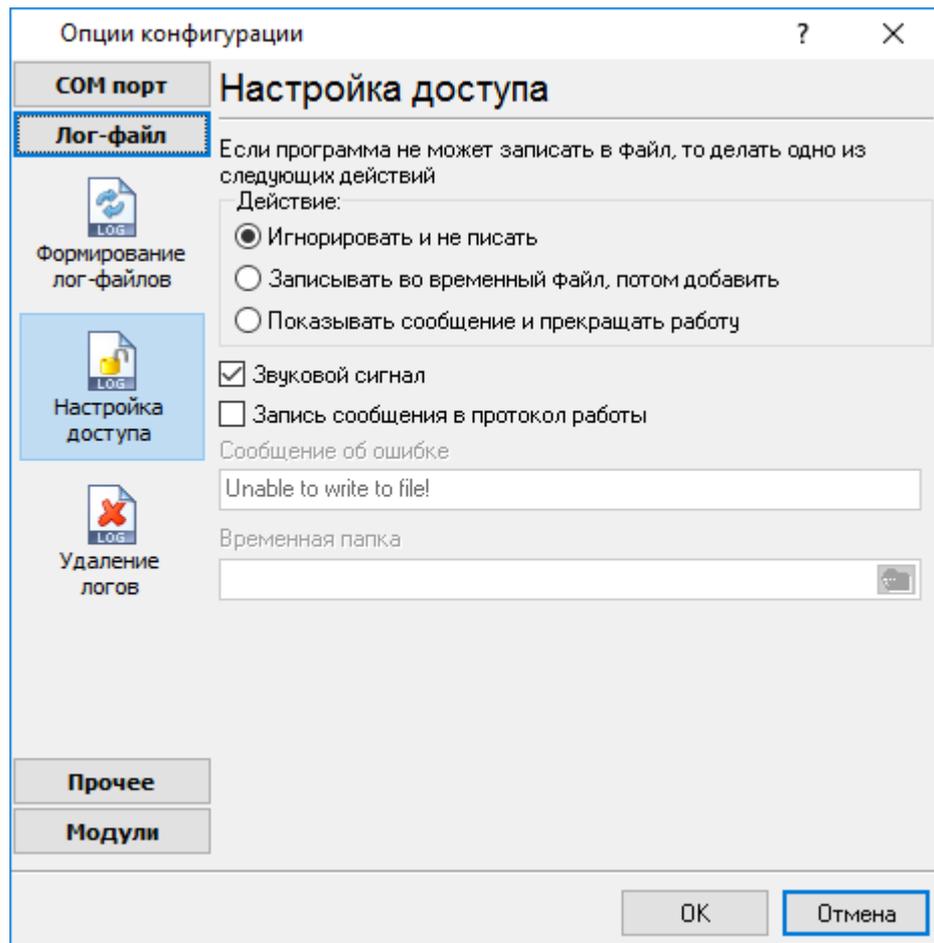
4 7.

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

### 5.3.2

Office ( , Microsoft Word),  
OPC Data Logger

Microsoft  
Advanced



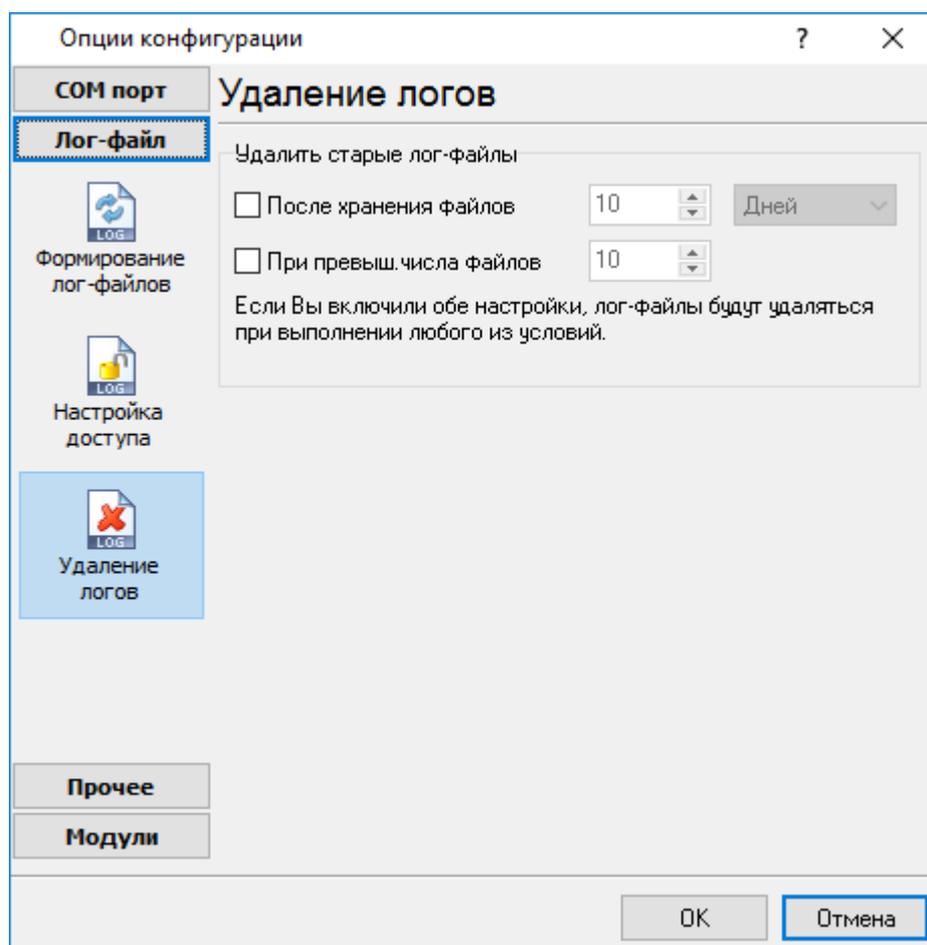
. 4.2.1.

Advanced OPC Data Logger  
( . 4.2.1),

- 
- 
-

## 5.3.3

(рис. 4.3.1).



. 4.3.1.

## 5.3.4

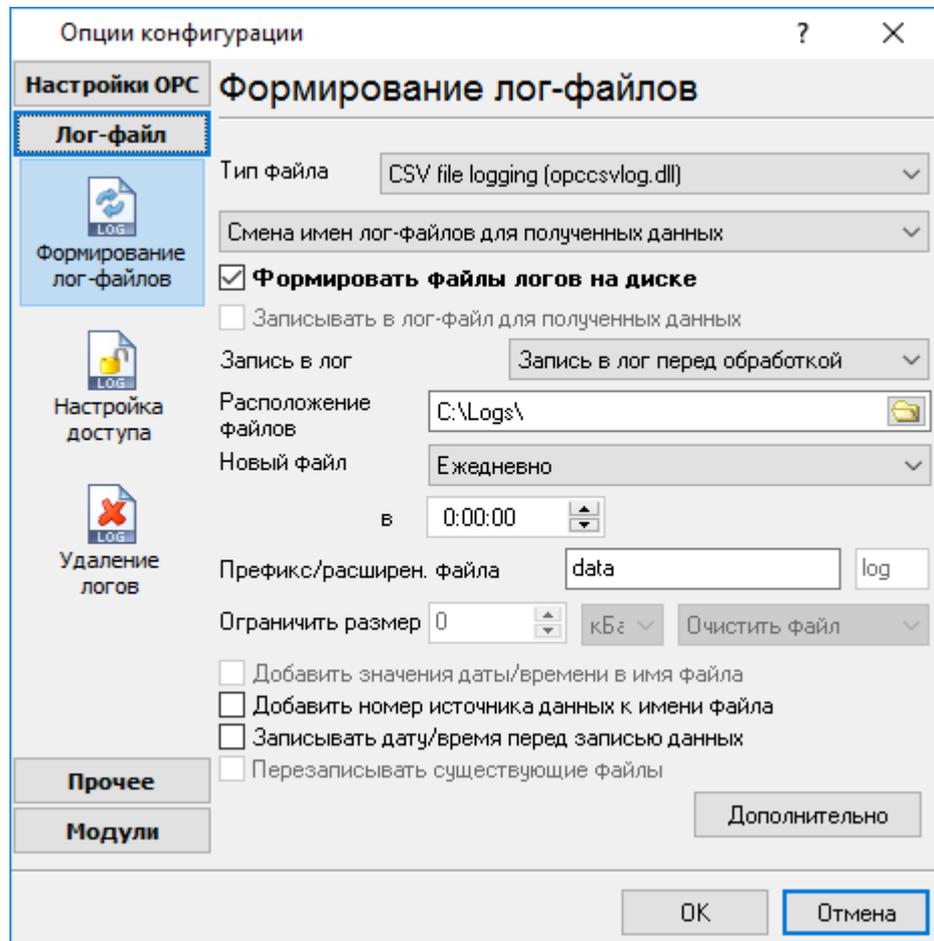
## CSV

CSV,  
Excel-

CSV

CSV

OPC [11]



. 4.4.1

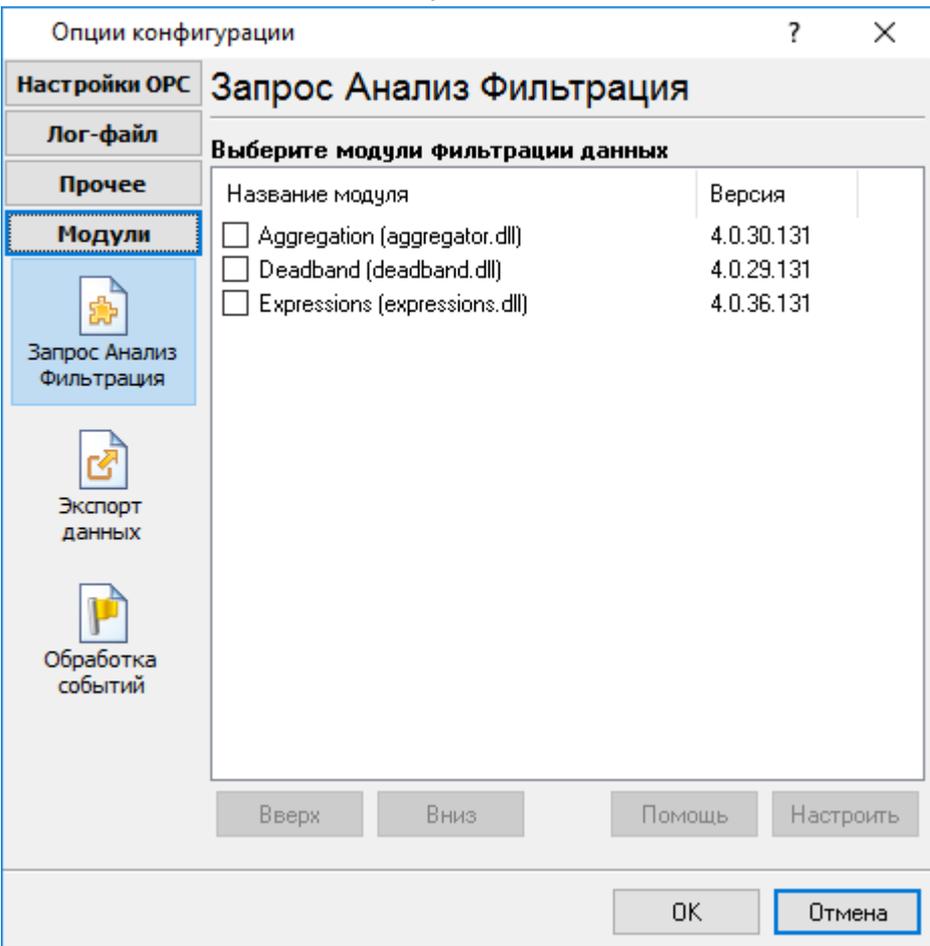
CSV

## 5.4

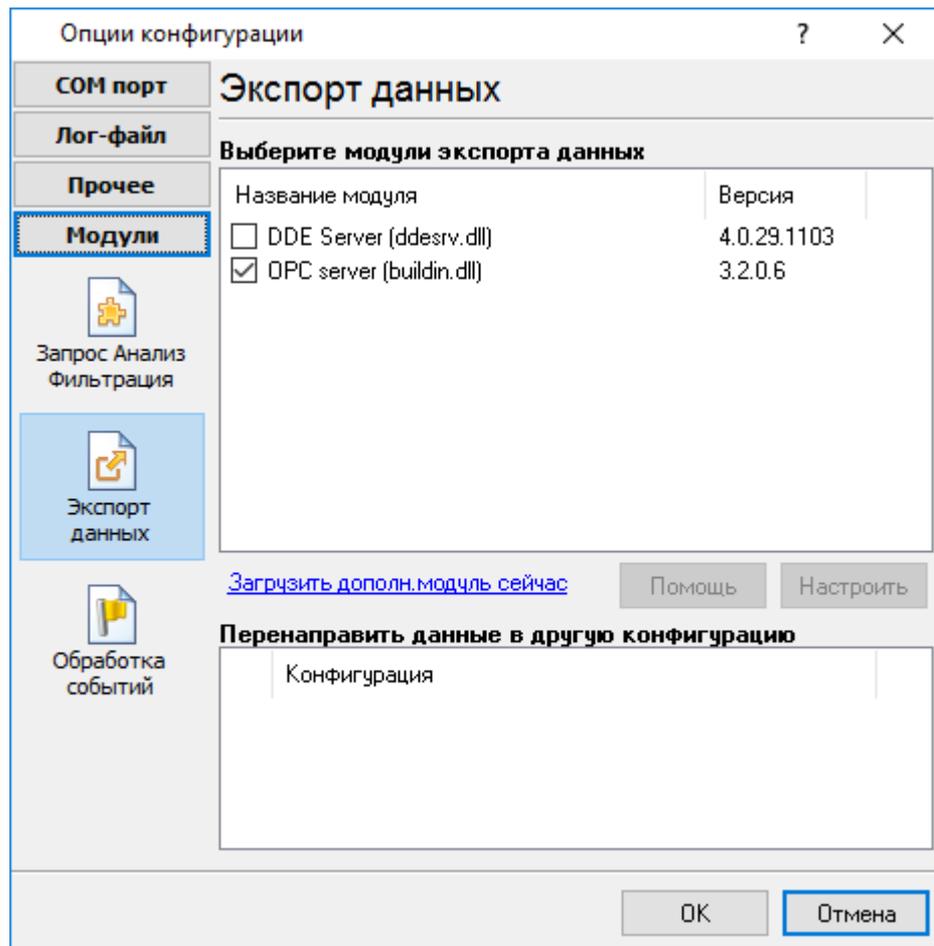
## 5.4.1

Advanced OPC Data Logger :

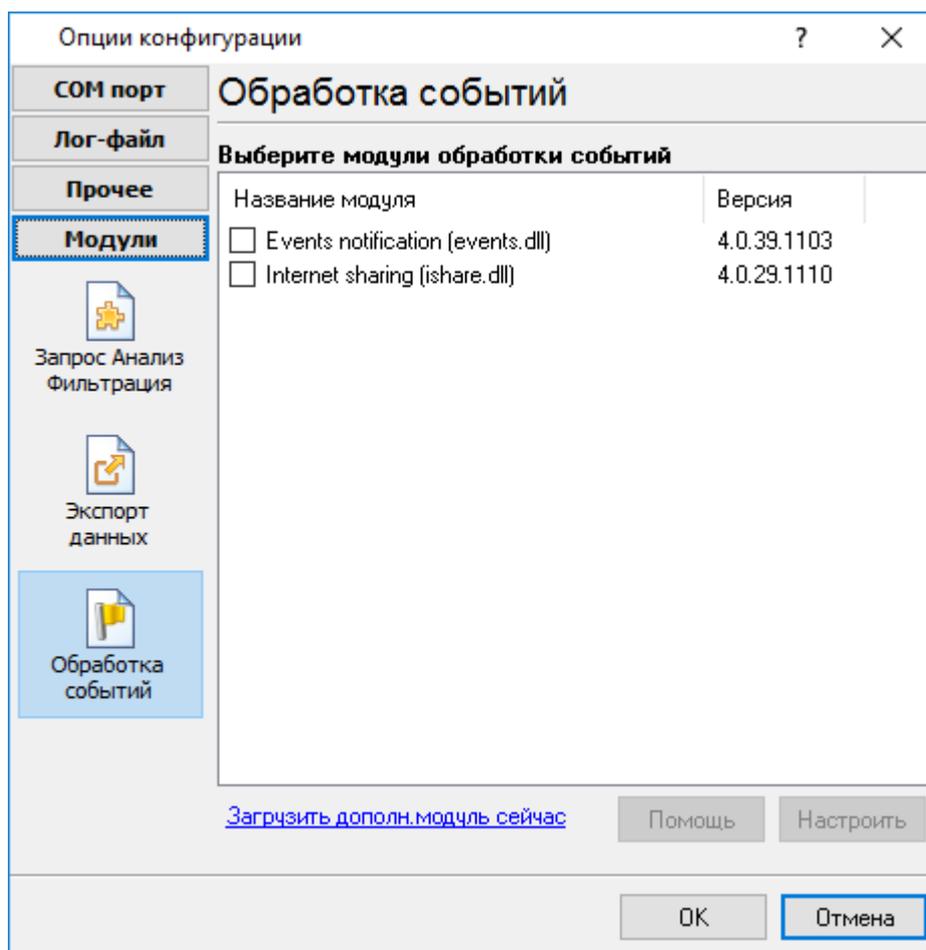
- - ;
- - , Excel ;
- ( . 5.1.3) - , " - " " ,



. 5.1.1.



. 5.1.2.

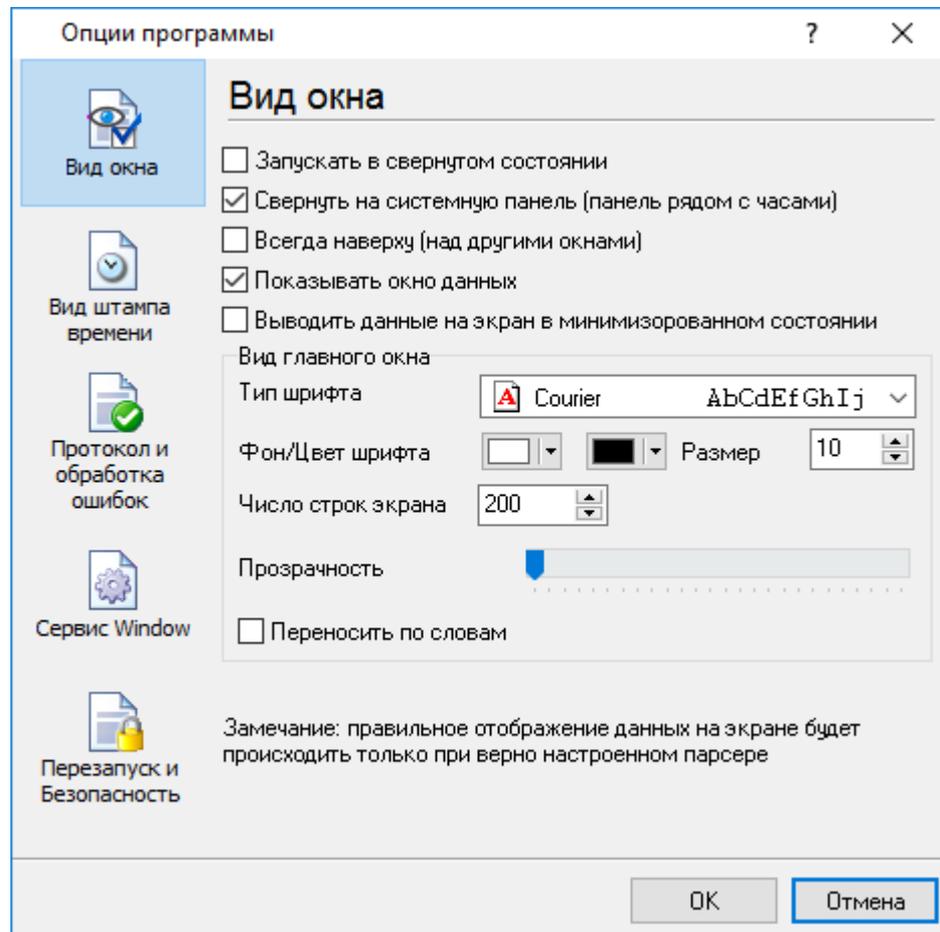


. 5.1.3.

"OK".

## 5.5

## 5.5.1

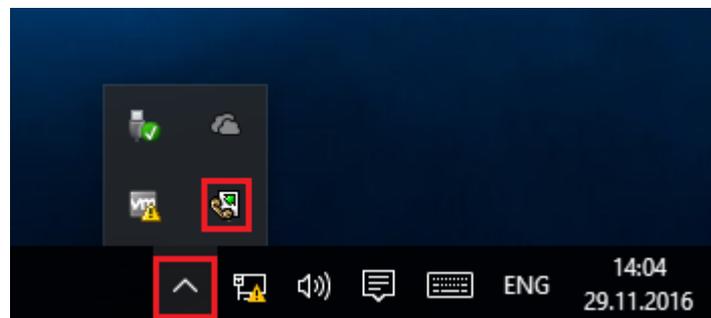


. 6.1.1.

" ( . 6.1.1) :

- Advanced OPC Data Logger

( . 6.1.2) ;



. 6.1.2.

-

( . 6.1.2) -

Advanced OPC Data Logger

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- /

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( , ,

;

- Windows 2000

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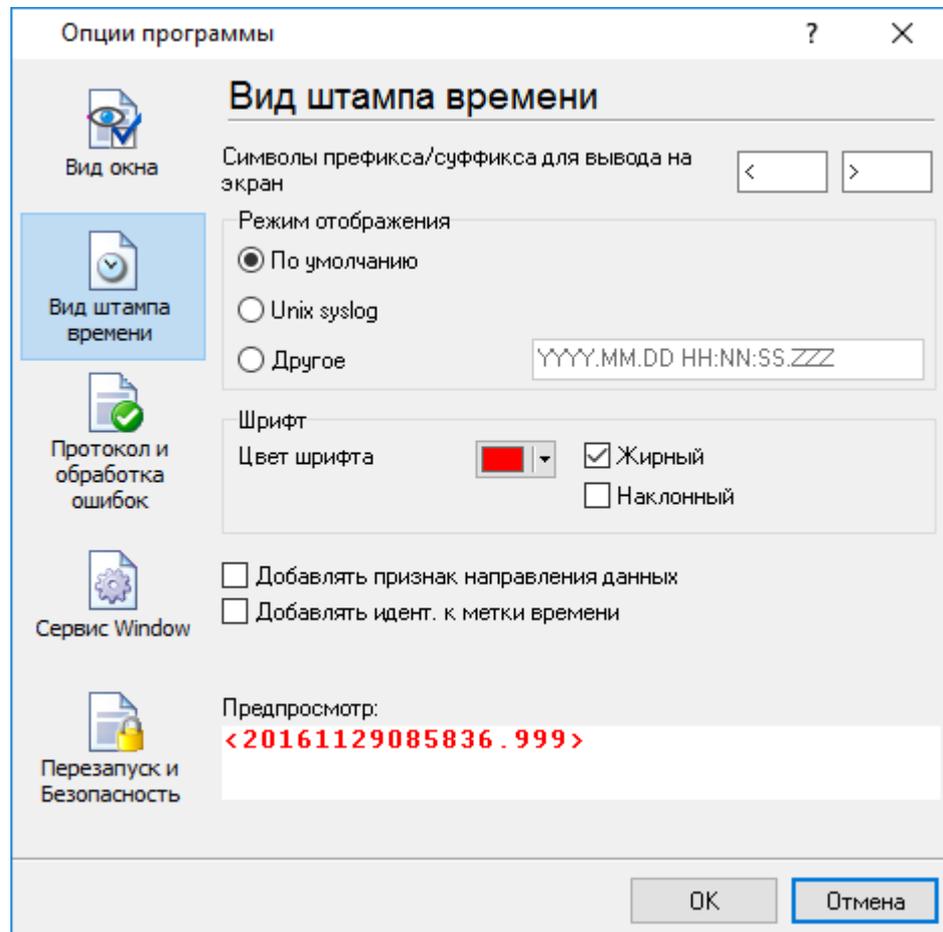
-

,

.

## 5.5.2

( . 6.2.1)



. 6.2.1.

26

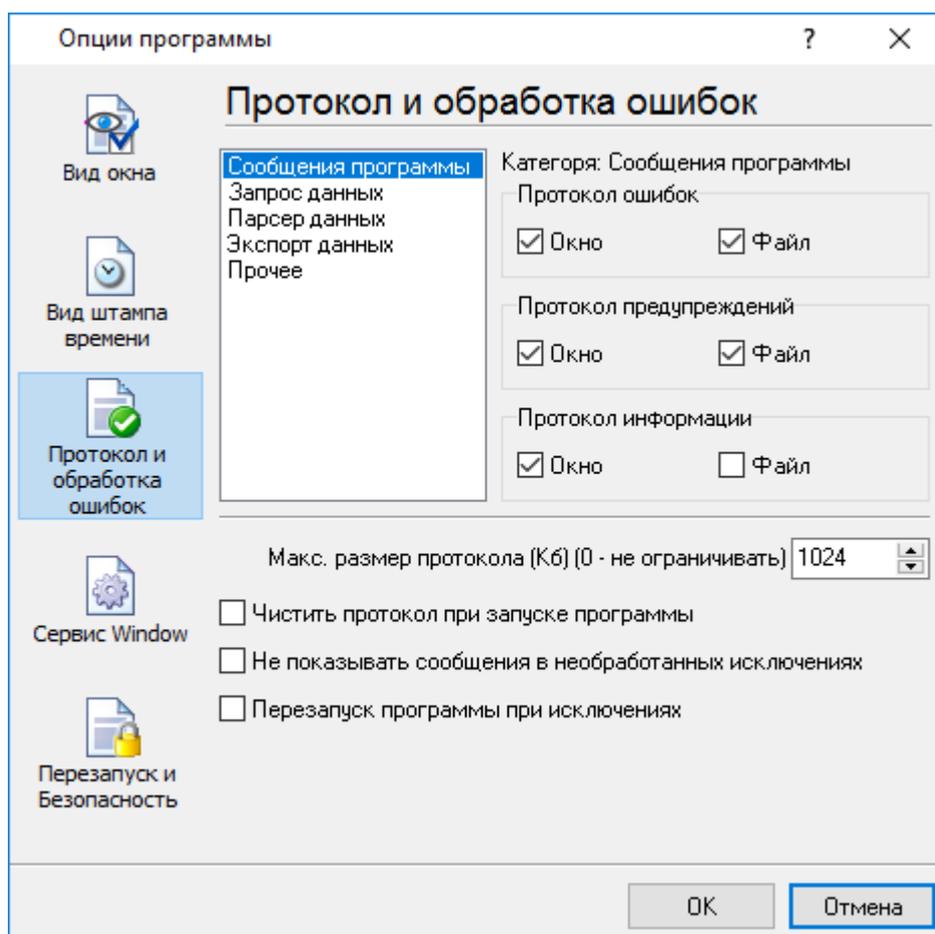
TX

RX

, COM1.

## 5.5.3

.log.



. 6.3.1.

Advanced OPC Data Logger

3-

- ;
- ;
- ;

- 
- 
- 
- 

Advanced OPC Data Logger

**5.5.4**  
**5.5.4.1**

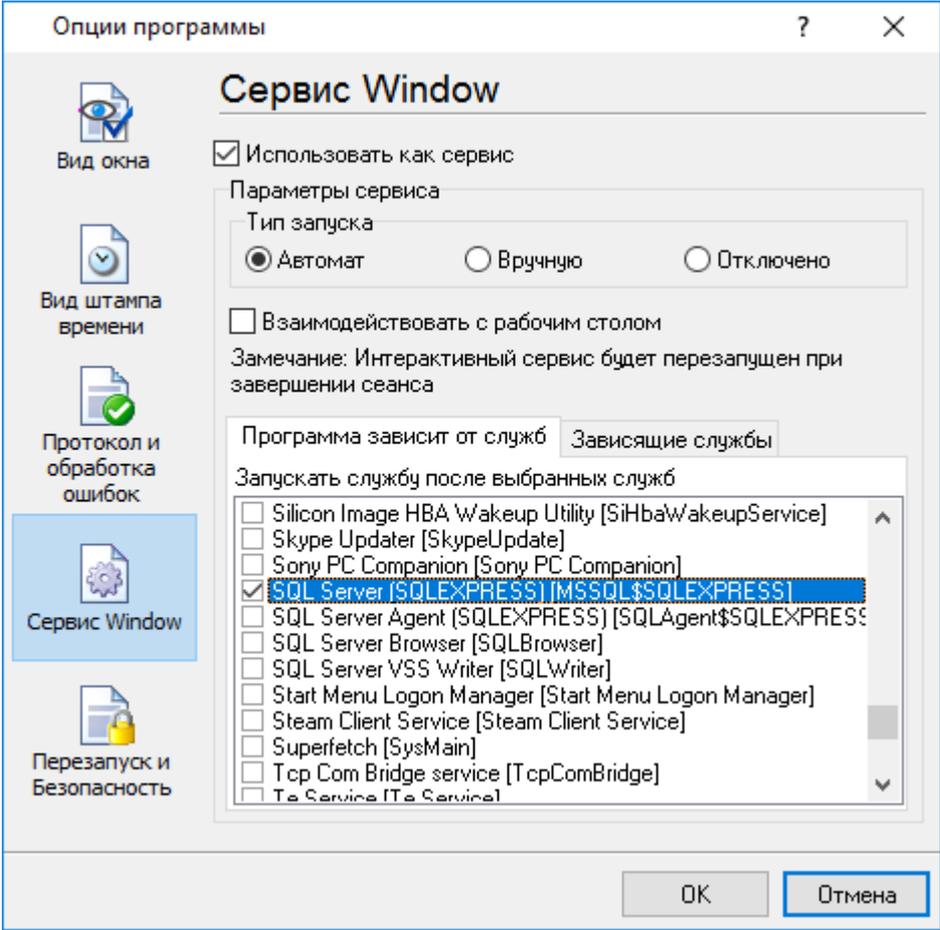
**Windows 2000**

( ) Windows :

- 2000 );
- - ( );
- ;
- 

Windows Vista  
(elevated)

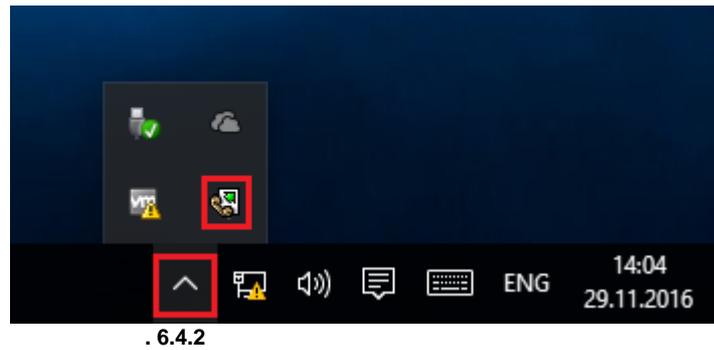
Windows" ( . 6.4.1).



. 6.4.1.

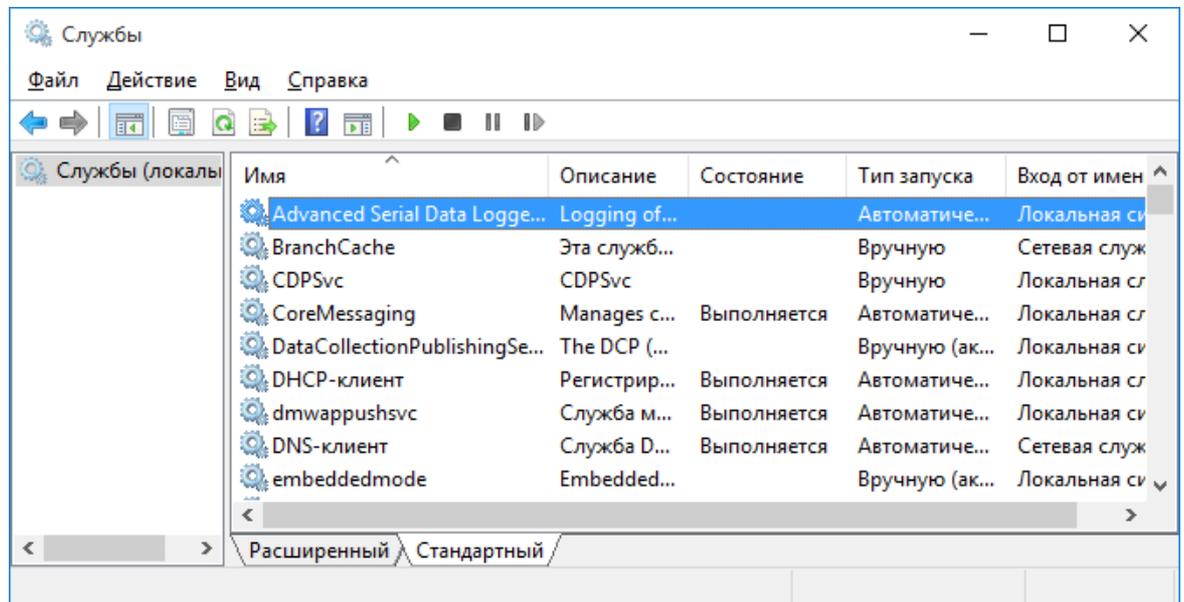
1. - Windows
2. - ; " " ;
3. - .

" .  
 ( . 6.4.2).  
 ", . . Windows



Advanced OPC Data Logger, " ( . 6.4.1)

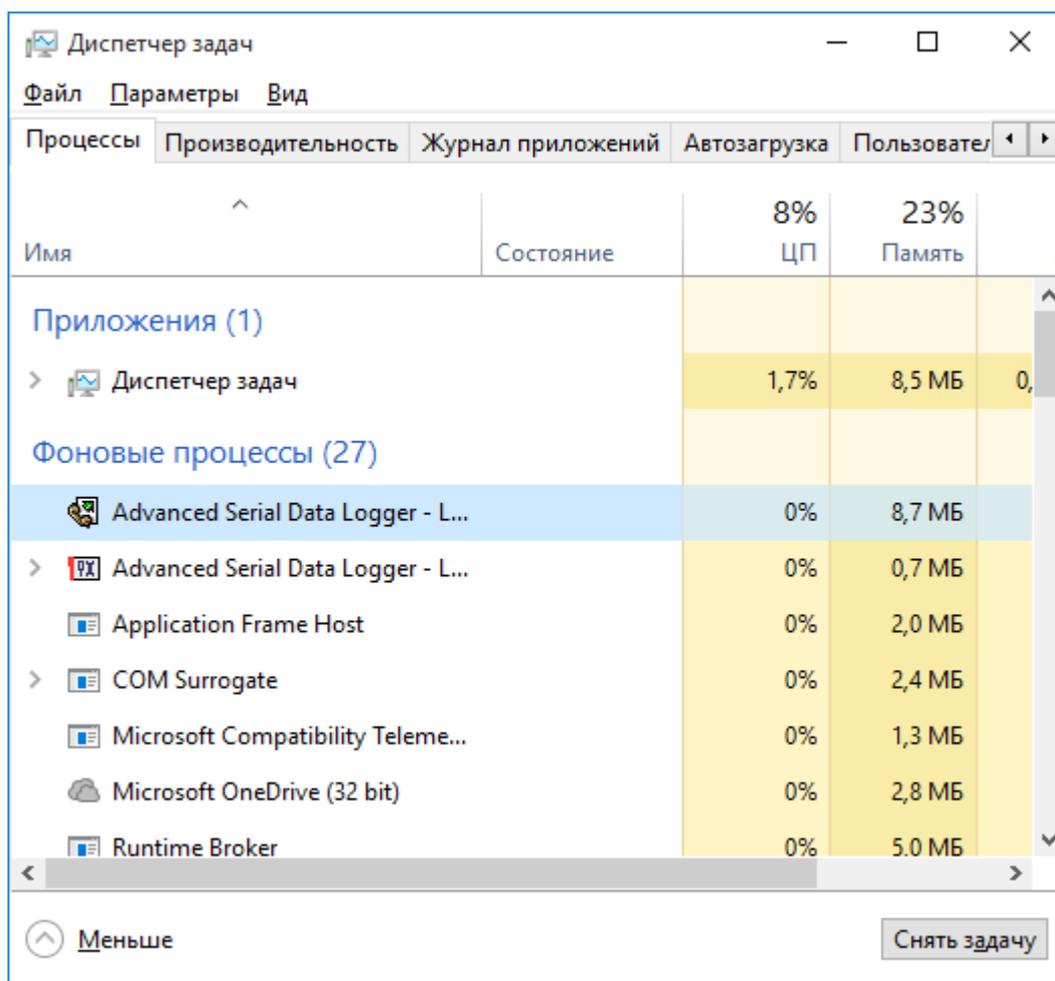
( . 6.4.3).



. 6.4.3.

( Windows 2000)

opclogger.exe ( . 6.4.4). 2 - opcloggersrv.exe  
Advanced OPC Data Logger  
Advanced OPC Data Logger,  
svany.exe



. 6.4.4.

opcloggersrv.exe :

- /? - ;
- /l - ;
- /A - ;
- /D - ;
- /R - ;

## 5.5.4.2

## Windows Vista

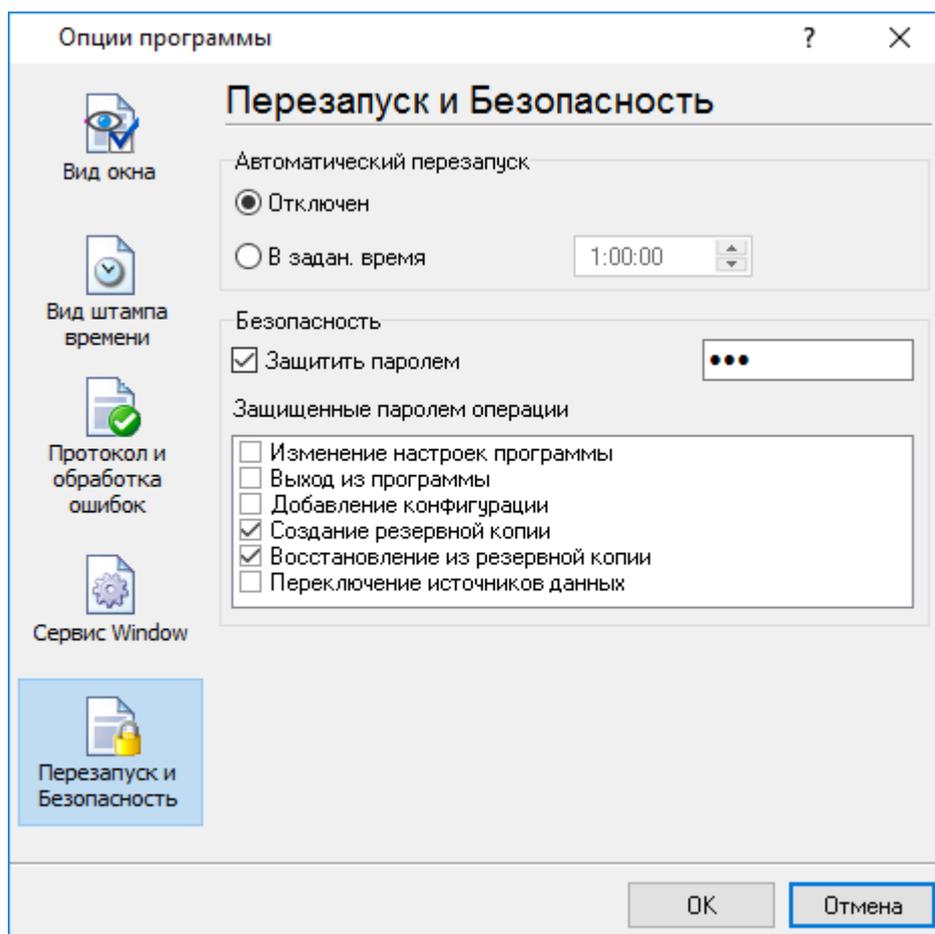
Windows Vista

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)