



Advanced OPC Data Logger

1		1
1	Advanced OPC Data Logger	1
2	.....	2
2	,	4
1	.....	4
2	.....	5
3	.....	5
4	.....	5
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
	.....	27
	.....	28
3	-	29
	-	29
	-	33
	.....	34
	CSV -	35
4	.....	37
	.....	37
5	.....	41
	.....	41
	.....	43
	.....	44

Windows 2000

45

Windows Vista

48

49

6**?****50****1****50**

1**1.1 Advanced OPC Data Logger**

OPC (OLE for Process Control) -

OPC

OPC Data Logger

, MSSQL, MySQL, Access,

Oracle ODBC

, DDE, Excel

" " OPC

, Excel

OPC Data Logger

OPC

/

SCADA.

Advanced OPC Data Logger:

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

- , ; , ; , ;
- , , , , ;
- Windows 2000+,
x86 x64.
- Windows. Advanced OPC Data Logger
Windows 2000+,
- , , , ,
- ! Advanced OPC Data Logger,
- !

: <https://www.aggsoft.ru/>
 : <https://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) IP DNS
 198.63.211.24. www.aggsoft.com

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

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

Copyright © 1999-2024 AGG Software.
All Rights Reserved

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

2.2

shareware-

5

21

2.3

2.4

Logger	Advanced OPC Data https://www.aggsoft.ru/support/
--------	--

3

3.1

- Windows 2000 SP 4 - Windows 11 (x86 x64,).

3.2

Advanced OPC Data Logger.

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

Advanced OPC Data Logger

4

4.1

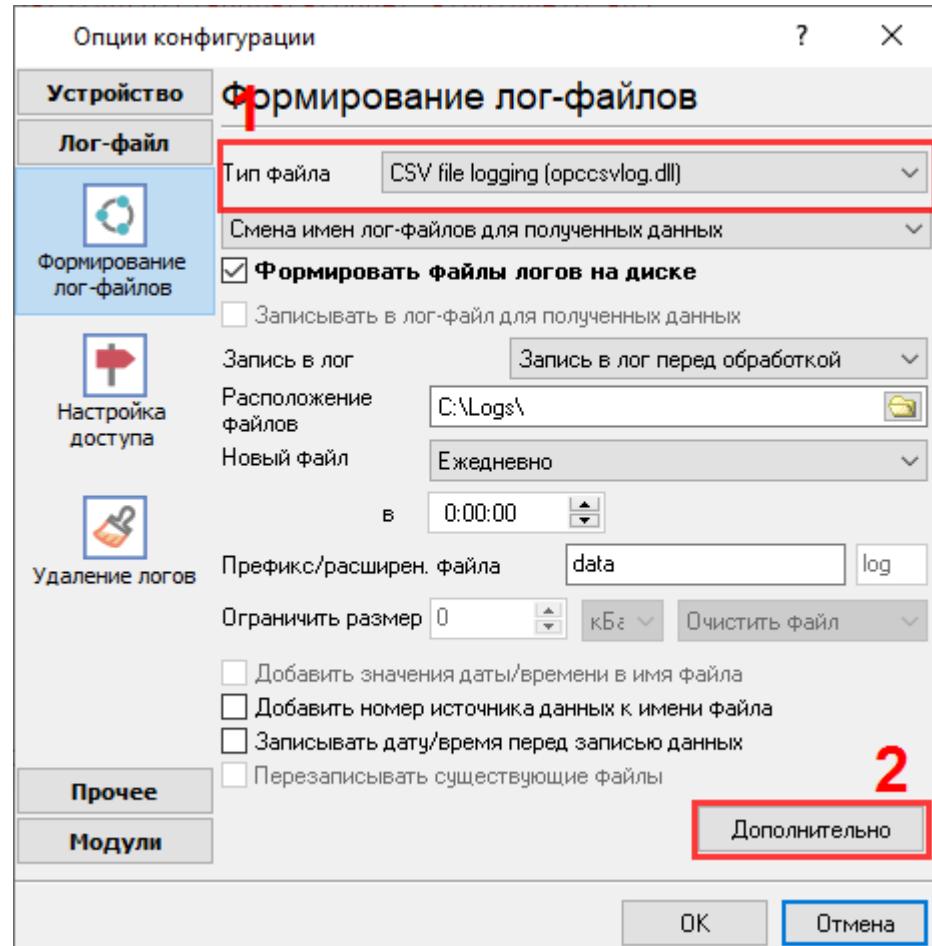
Advanced OPC Data Logger

Advanced OPC Data Logger

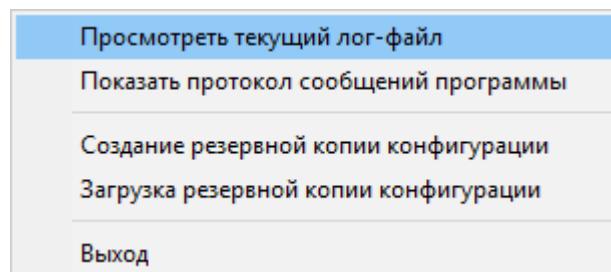
" " .

(. 1),

2) _____ [8] (" ..."), " " (.



1.



2.

C:\.\ , ,
_____ [8]

1-2-3-4

1.

" " _____ [11] OPC " " OPC"

2. ().

" " ().

3. , _____ [37].

" , , ,

4. Advanced OPC Data Logger ,

Advanced OPC Data Logger , ,

4.2

, _____ [29]

_____ [33] , _____

(_____ [6]).

" _____ [24]" , _____ [41].

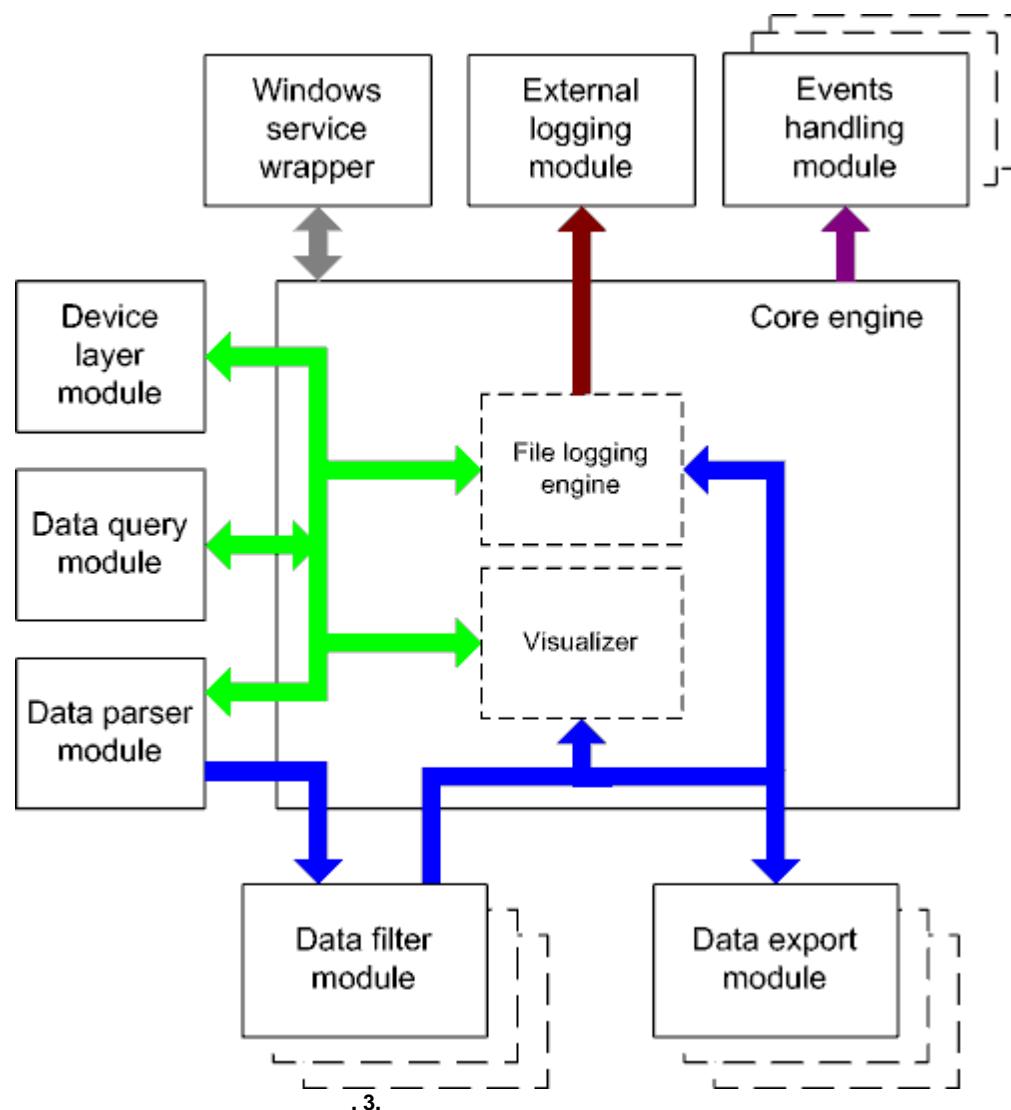
Advanced OPC Data Logger _____ [37] (plug-ins),

" _____ [37]" .

(_____ [6]) , _____

_____ [44] (),

4.3



[44] - ().

[45] - ().

- 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.

Windows.

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.

"", "", ""
", . , , , , ,
NULL, , , ,
,

"", "",""
"\"", "","",
\$00..\$1F, "",""
"\\", "\\", "\\x".

OPC

1.

2.

"CR" "CR+LF";

3.

4.

, , , , , , , ,
, , , , , , , ,
(,) , , , , ,
,

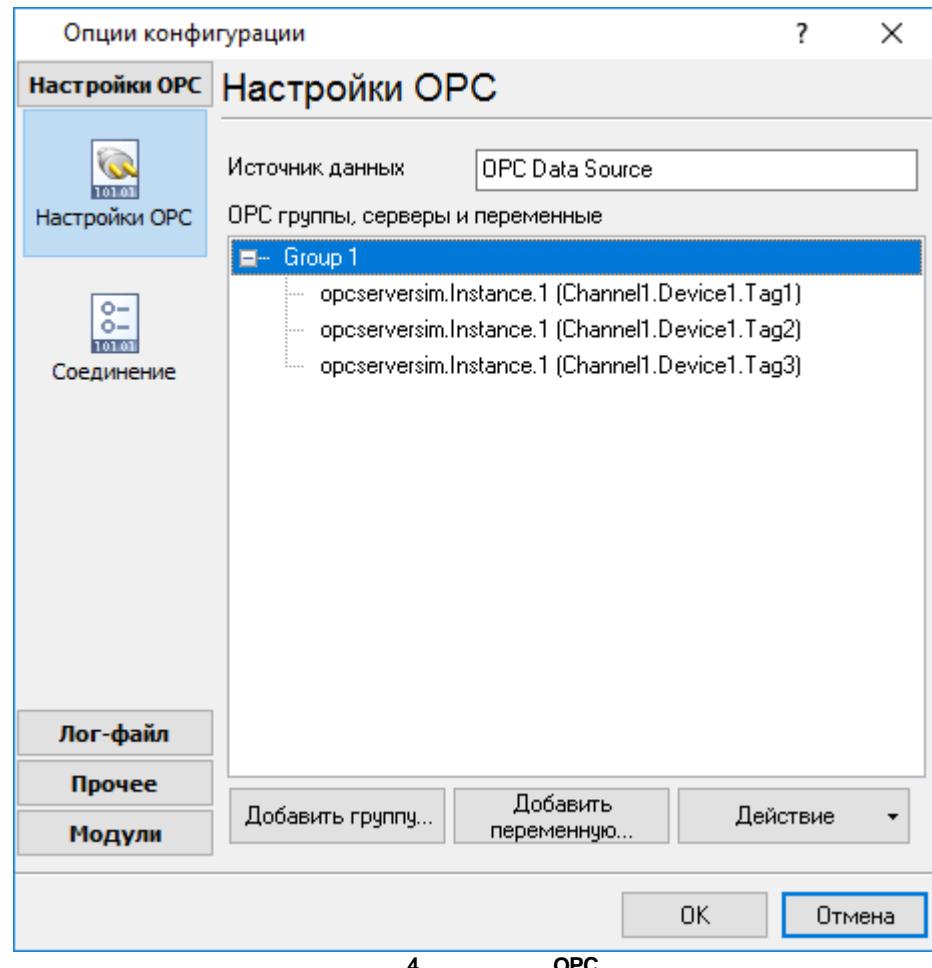
, , , , , , , ,
, , , , , , , ,
"integer", "double".
"",""
", , , , , , , ,

5.

, , , , , , , ,
"OPC" /
,

, , , , , , , ,
"OPC" -

OPC

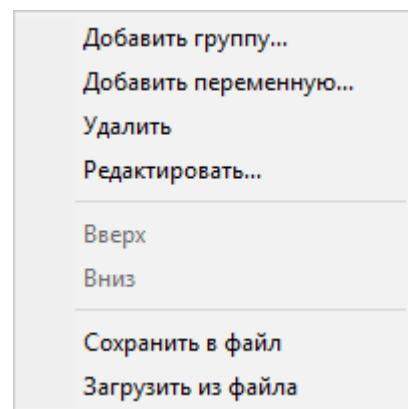


4.

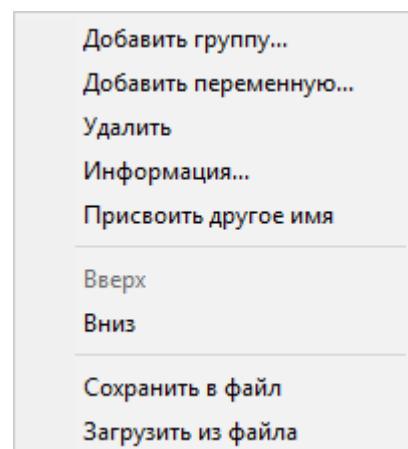
OPC

OPC

OPC



. 5.



. 6.

" " " "OPC
" - "...", (. 5 . 6).
" "...",
(. 7).

Свойства группы

Имя	<input type="text" value="Группа 2"/>																
Частота обновления [мс]	<input type="text" value="1000"/>	Мертвая зона (%)	<input type="text" value="0"/>														
<input checked="" type="checkbox"/> Активно		<input checked="" type="checkbox"/> Экспорт только достоверных данных															
<input type="checkbox"/> Ожидать обновления всех переменных		<input type="checkbox"/> Экспорт метки даты/времени															
<input checked="" type="checkbox"/> Добавлять имя сервера к имени переменной		<input type="checkbox"/> Метки времени в локальном времени															
<input checked="" type="checkbox"/> Экспортировать всю группу		<input type="checkbox"/> Экспорт качества переменной															
<input checked="" type="checkbox"/> Экспорт всех изменившихся переменных одной строкой		<input type="checkbox"/> Экспорт имени переменной															
<input type="checkbox"/> Экспорт за фикс. интервал		<input checked="" type="checkbox"/> Не экспортировать NULL значения															
Экспорт в																	
<input checked="" type="radio"/> Использовать период обновления																	
<input type="radio"/> Время суток <input type="text" value="11:00:12:00"/>																	
<input type="radio"/> Время в формате планировщика Unix Cron <table border="0"> <tr> <td>ДН</td> <td><input type="text" value="*"/></td> <td>М</td> <td><input type="text" value="*"/></td> <td>Д</td> <td><input type="text" value="*"/></td> <td><input type="button" value="?"/></td> </tr> <tr> <td>Ч</td> <td><input type="text" value="*"/></td> <td>МИН</td> <td><input type="text" value="*/1"/></td> <td>СЕК</td> <td><input type="text" value="0"/></td> <td></td> </tr> </table>				ДН	<input type="text" value="*"/>	М	<input type="text" value="*"/>	Д	<input type="text" value="*"/>	<input type="button" value="?"/>	Ч	<input type="text" value="*"/>	МИН	<input type="text" value="*/1"/>	СЕК	<input type="text" value="0"/>	
ДН	<input type="text" value="*"/>	М	<input type="text" value="*"/>	Д	<input type="text" value="*"/>	<input type="button" value="?"/>											
Ч	<input type="text" value="*"/>	МИН	<input type="text" value="*/1"/>	СЕК	<input type="text" value="0"/>												
<input type="button" value="OK"/>		<input type="button" value="Отмена"/>															

7.

XXX, XXX-

() -
 OPC - 1000
 , . 1

(%) - - 0

((),).

/

(

" " NULL "),

",

/

, OPC_QUALITY_GOOD,

OPC , OPC
UTC+0.

, OPC OPC

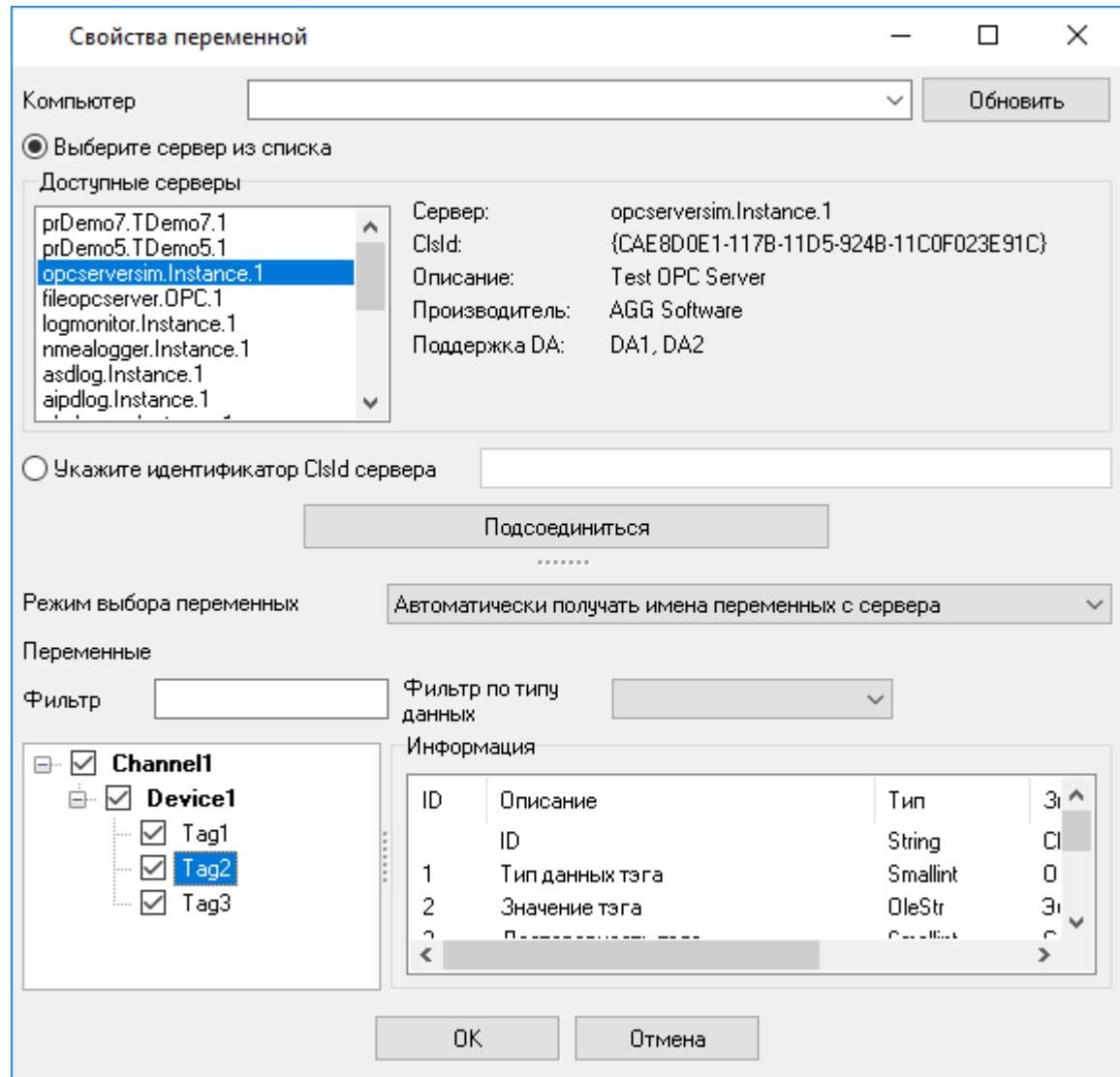
"
ITEM_NAME[8] = "opcserversim.Instance.1.T1"; ITEM_VALUE[3] = 1606521099; ITEM_QUALITY[3] = 192
ITEM_NAME[8] = "opcserversim.Instance.1.T2"; ITEM_VALUE[3] = 1170485188; ITEM_QUALITY[3] = 192
ITEM_NAME[8] = "opcserversim.Instance.1.Val1"; ITEM_VALUE[5] = 4958.32440443337; ITEM_QUALITY[3] = 192
ITEM_NAME[8] = "opcserversim.Instance.1.Val2"; ITEM_VALUE[5] = 4970.36790242419; ITEM_QUALITY[3] = 192

NULL

"  "

"OK"

"OPC",
 " -
 ...",
 (. 8).



. 8.

OPC

OPC

().

DA -

DA.

1.
2.

2

"OK"

(. . 9),

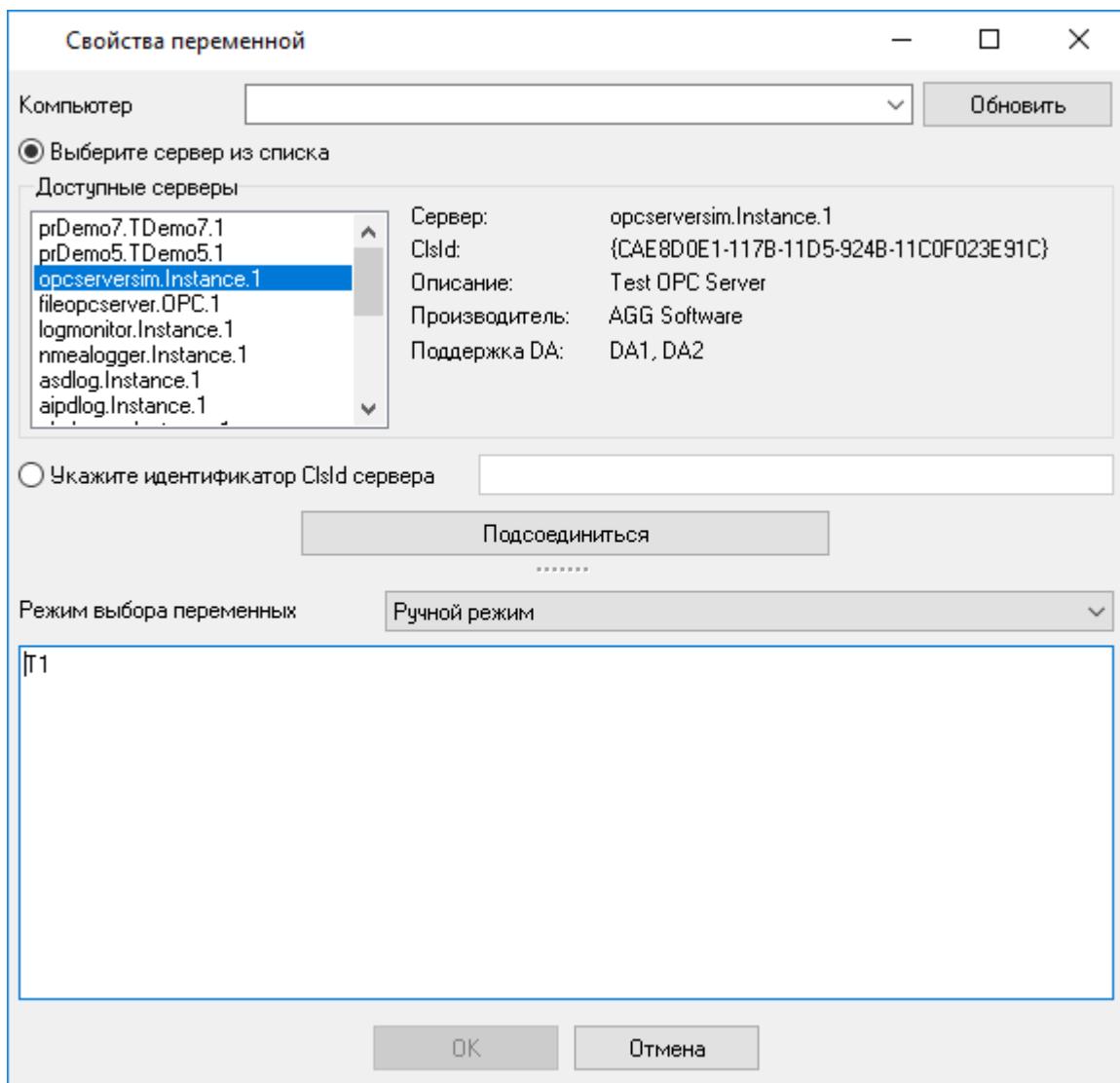
Выбрать все

Очистить все

Инвертировать выбор

Скопировать выбранные переменные для ручного редактирования

9.



10.

" - " , " ,
" - ", " , " , " , " ,
, " , " , " , " , " ,

"OPC",
"...",
(... 11).

"_____ [11]".

"OK"

"OPC",
"...",

"OPC",
"..."

"OK" -

1: /

2: ,

"OPC",
"..."

"OPC

OPC HDA

OPC HDA

10

(, [13])

OPC AE

OPC AE

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

* : *

OPC UADA

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

127.0.0.1 - IP , . IP
 10000 - IP
 login:password - () , ,
 , " " " ,
 , " " " ,
 (LDS GDS , IP 4840).
 " LDS " (_____17).
 , :
 , :
 • (None).
 • (Sign).
 • (Sign&Encrypt).

- Basic128Rsa15
- Basic256
- Basic256Sha256

, OPC

5.1.2 "Cron"

Cron- - , (Unix) cron- ,
 :
 < > < > < > < > < > < >
 * () , , (, 1-5), (, 1,3,7)
 (*) , 0-23/2 " " / ,
 (0,2,4,6,8,10,12,14,16,18,20,22). */4 " " , 1,4,7,10,13,16,19,22,25,28.
 . 1-30/3 - ,

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

: < >

* * * * *	
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,

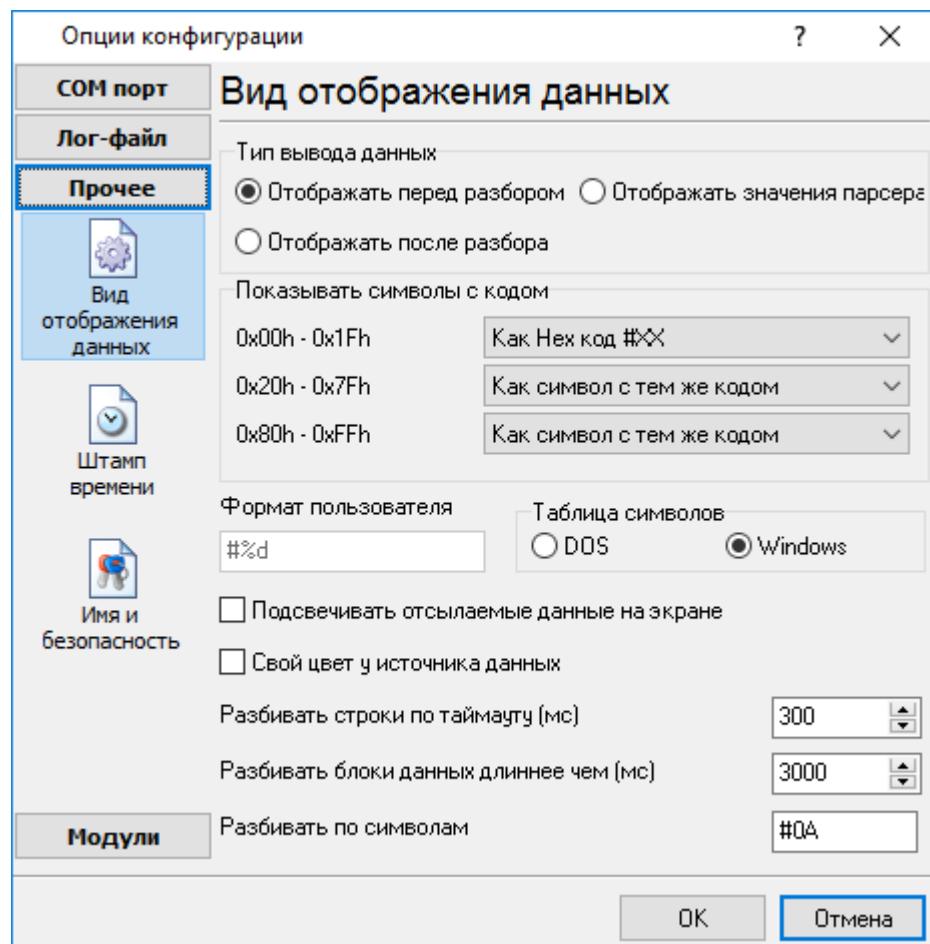
25 8 * * * *

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

5.2

5.2.1

1. ,
 2. (_____ $\lceil 6 \rceil$) 2 (. 11):



. 11.

" (. 11)

Hex-

%d

, %x -

: Windows DOS
(OEM).

,
0,

,
0,

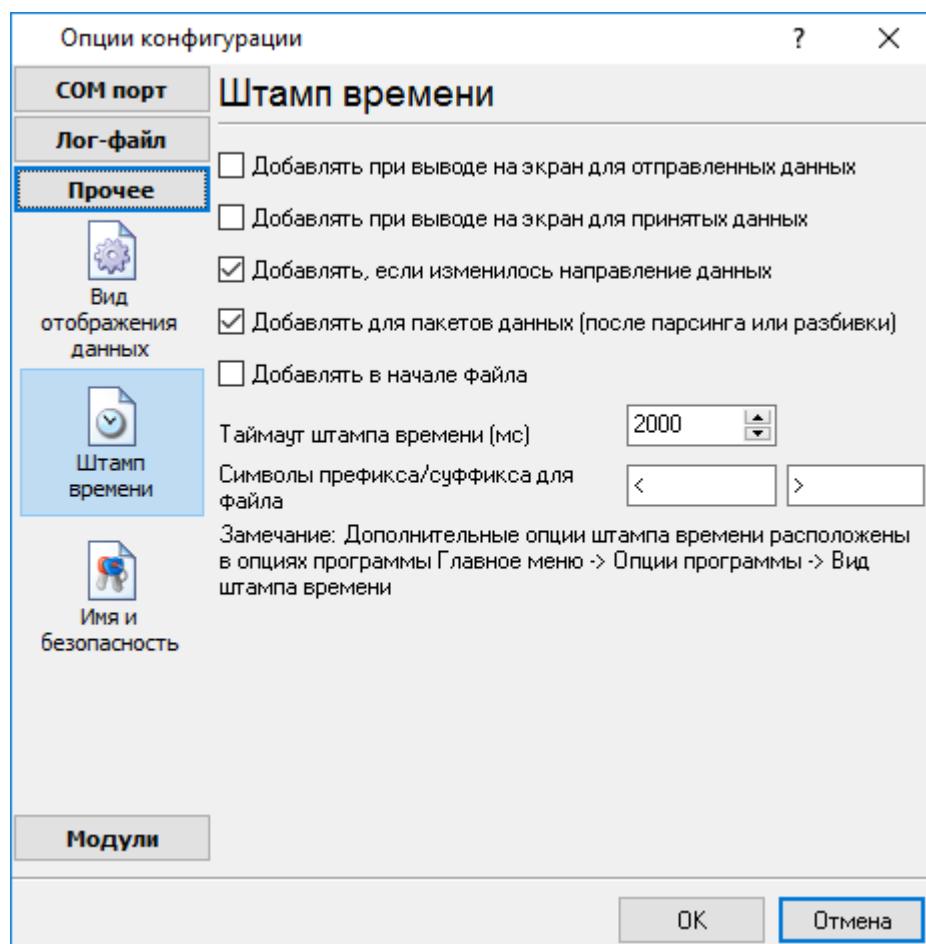
,
,

5.2.2

(. . 12)

(. .)

43



. 12.

(. .)

(. . / . .).

[43]

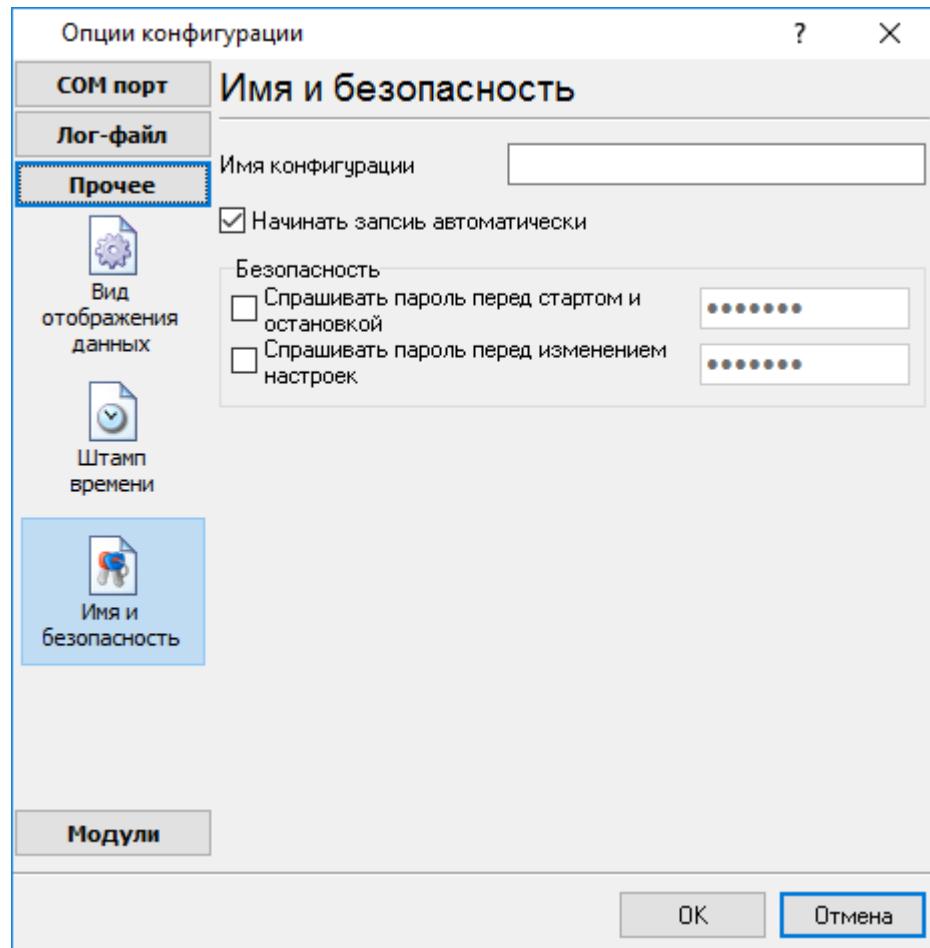
: >#0D#0A

5.2.3

(. 13)

[49]

" / "

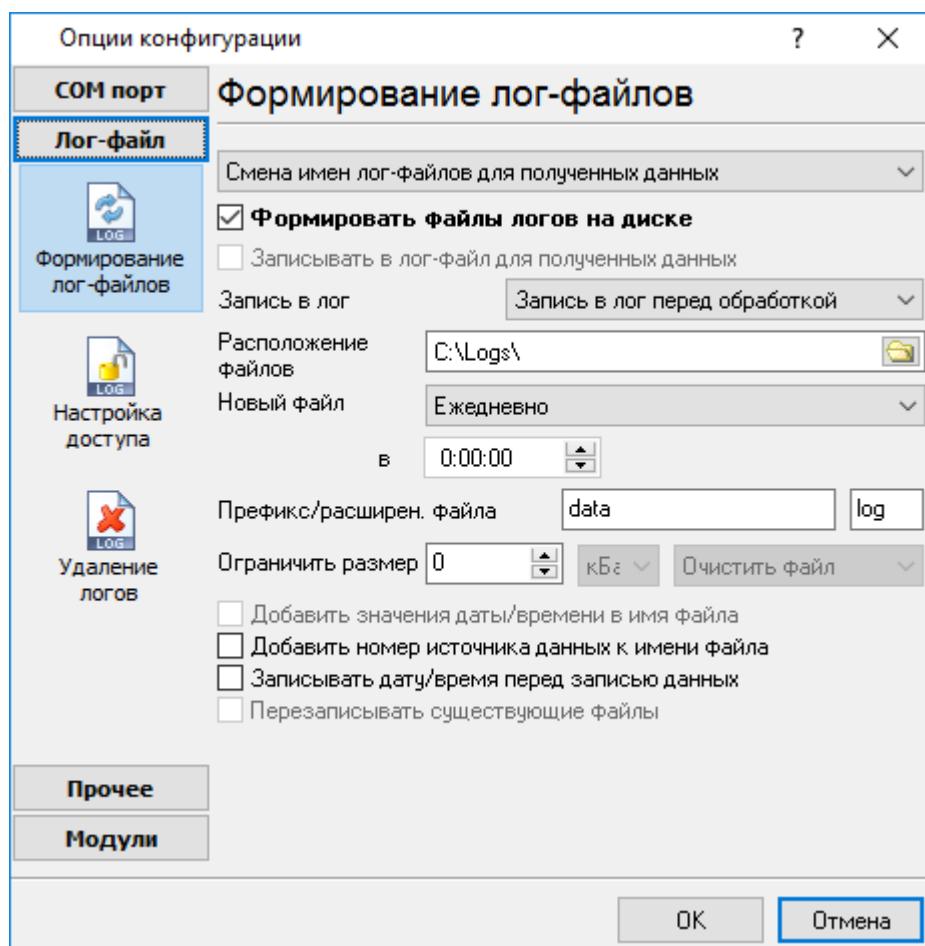


. 13.

5.3

5.3.1

(. 14).



. 14.

"OK".

Advanced OPC Data Logger

```
"sample",
"      ",
```

```
"log ",
```

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

().

, , ,

" "

1.

DDMMYYYY, DD - , MM -
YYYY - ;

2.

MMYYYY;

3.

YYYYMMDD;

4.

sample00000001.log.

5.

6.

WWYYYY, WW -
, YYYY - ;

7.

8.

HHDDMMYYYY;

9.

"Schedule & Hotkeys",

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).
W - ISO (-).
WW - ().

,
, :
YYYY"/"MM"/"DD - 2023/01/01
YYYY"/"MM"/"DD"THH:NN:SS - 2023/01/01THH:NN:SS

:
CLIENTID - ().
CLIENTNAME - ().

:
"sample_log", "txt".
:
= sample_log_, = txt (!).
HHDDMMYYYY.

:
4 7 /
:
, COM1-
sample20030321.log.
/
:
, ,
4 7 .
:
"

1.

2.

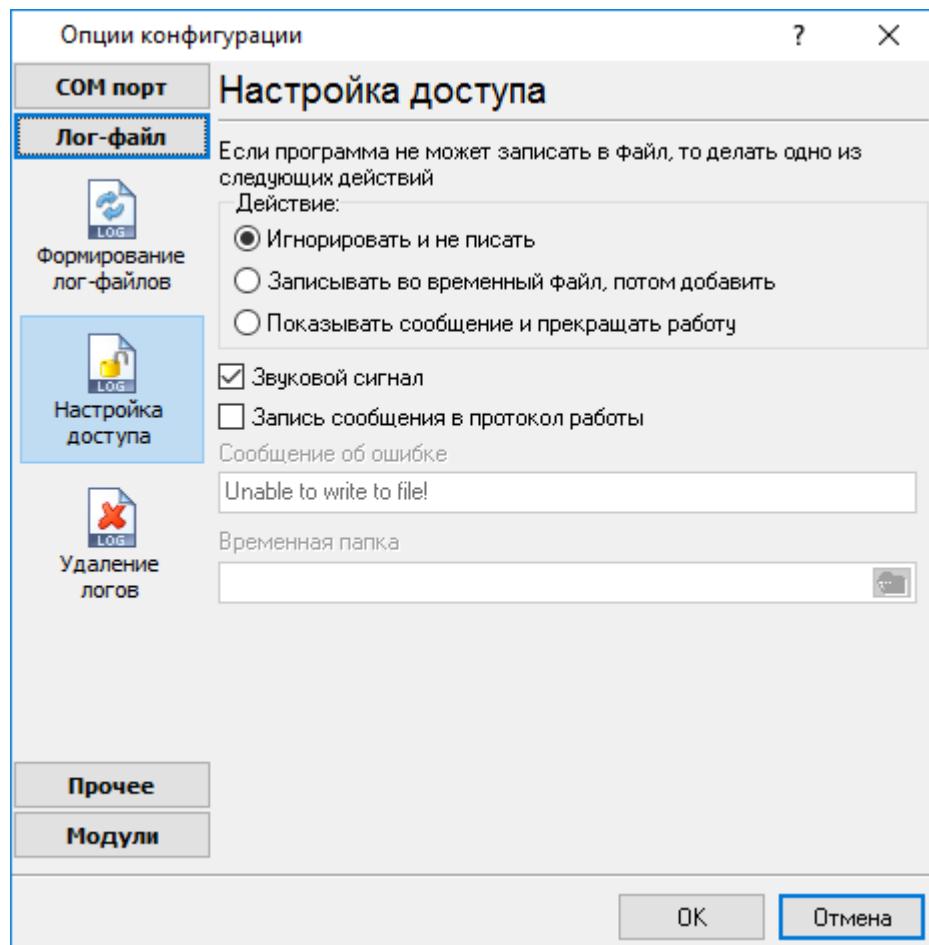
3. () -

4. ().

5.3.2

Office (, Microsoft Word),
OPC Data Logger

Microsoft
Advanced

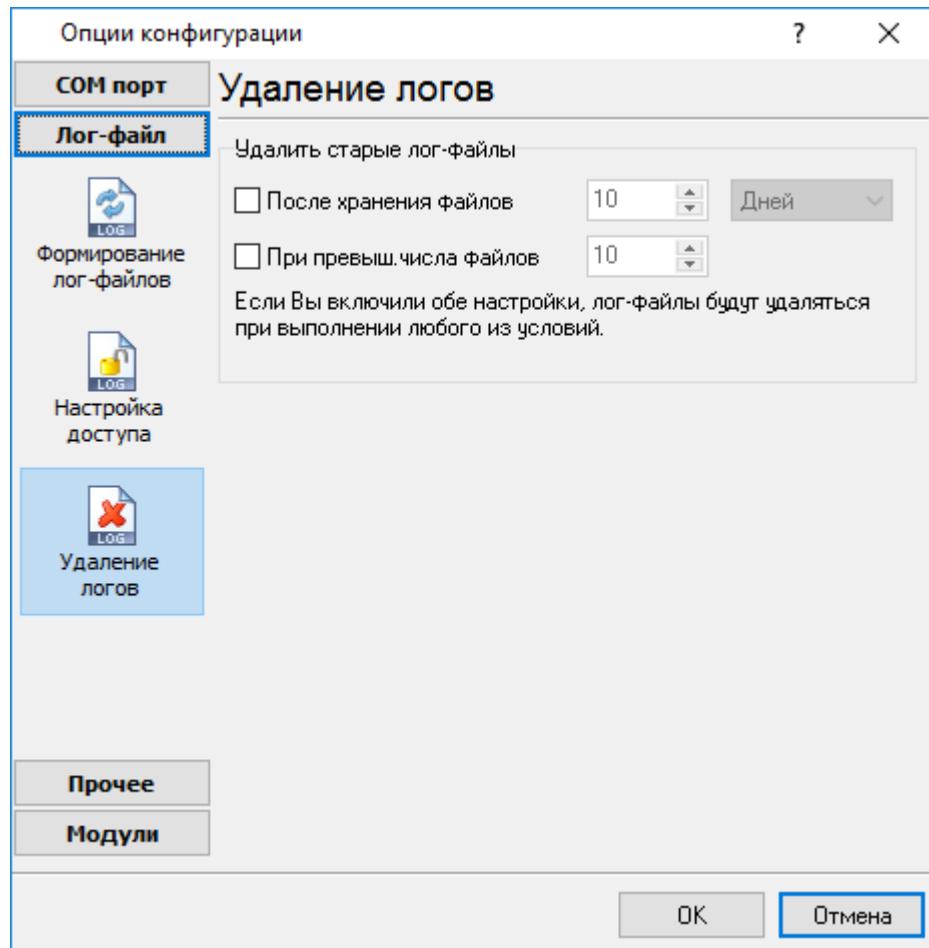


. 15.

Advanced OPC Data Logger
(. 15), :

5.3.3

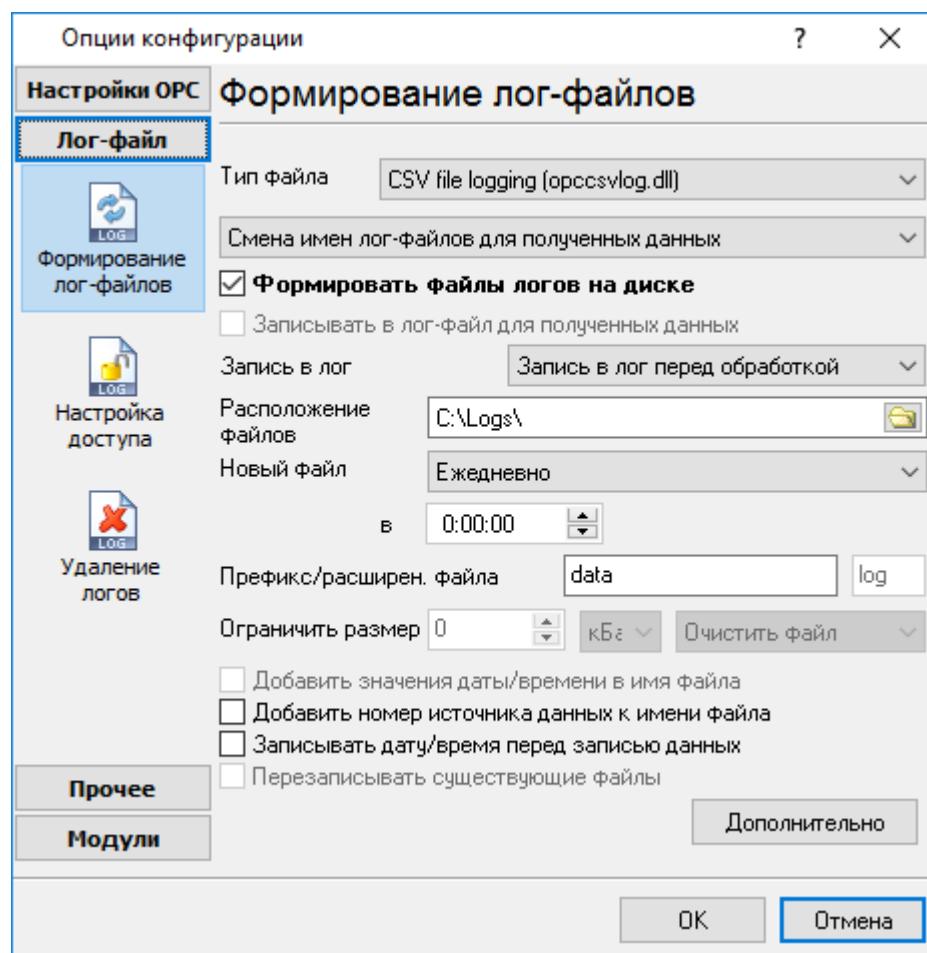
(. 16).



. 16.

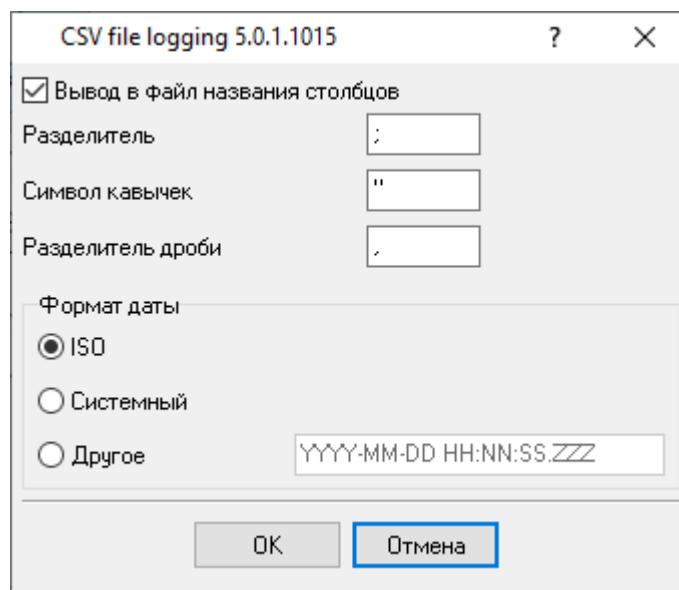
5.3.4 CSV -





. 17. CSV

"CSV" (. 18).



18.

CSV

CSV

#09

- ISO - "YYYY-MM-DD HH:NN:SS".
-
-

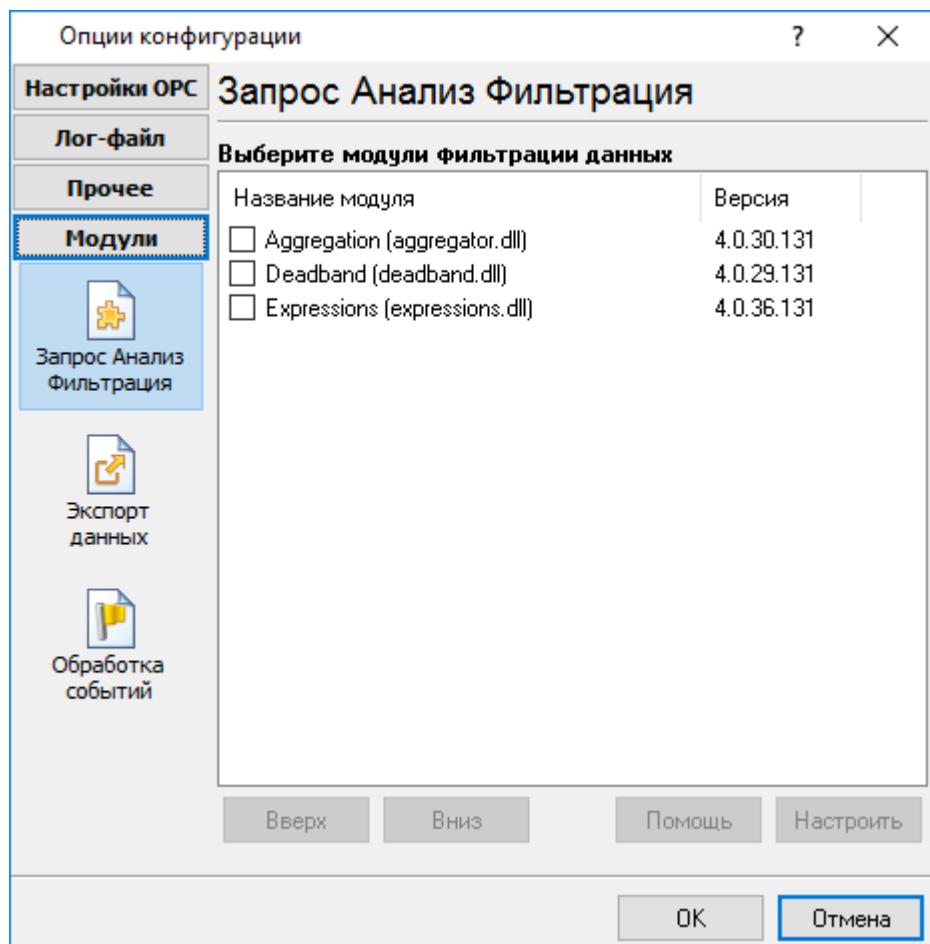
31

5.4

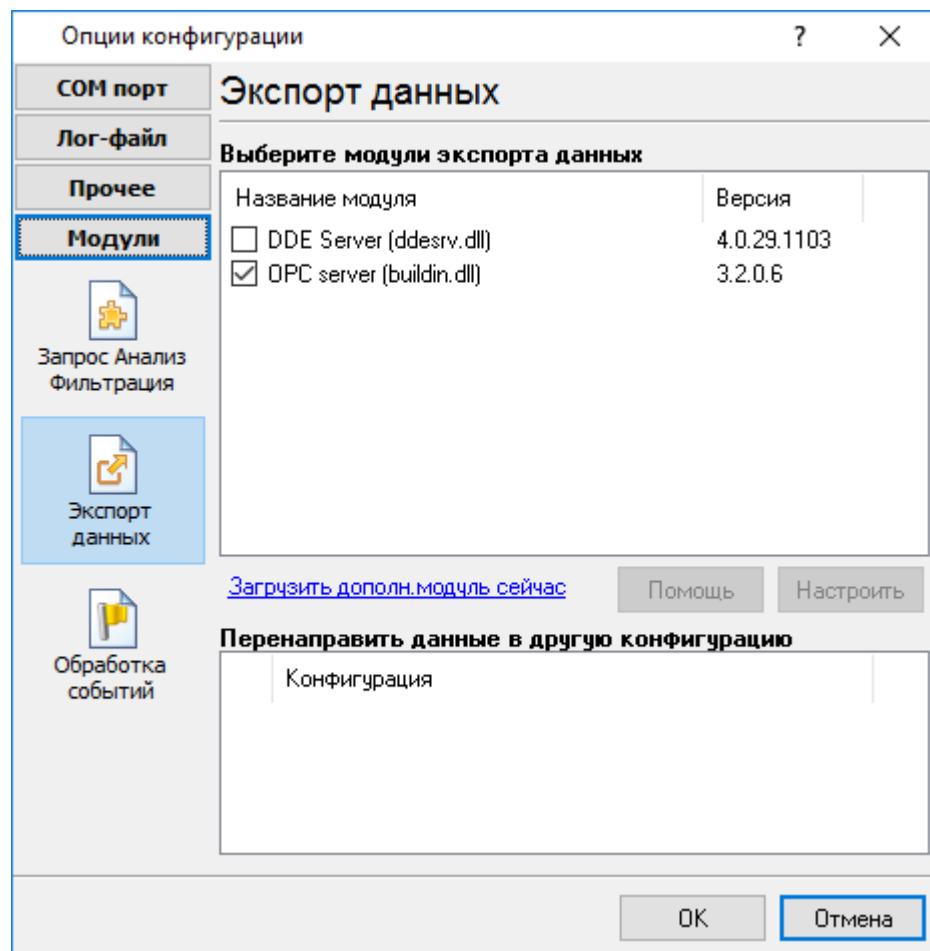
5.4.1

Advanced OPC Data Logger

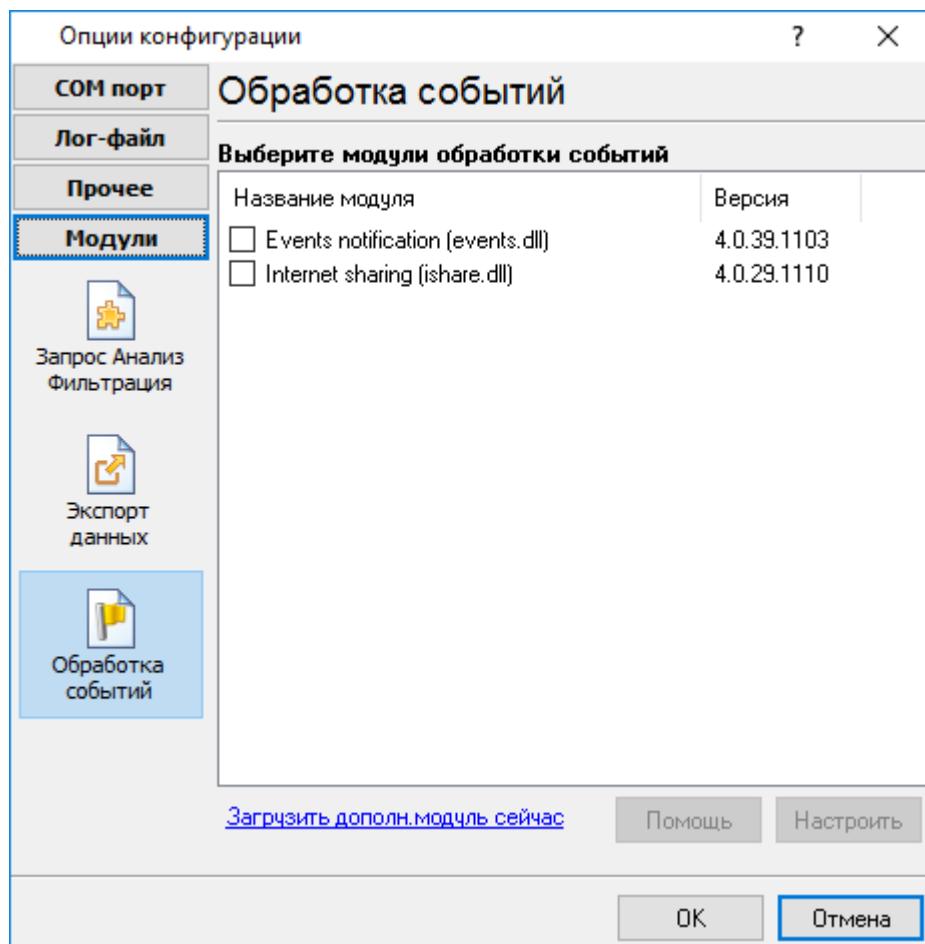
-
-
- , Excel ;
 (. 5.1.3) - Advanced OPC Data Logger. , " "



. 19.



. 20.

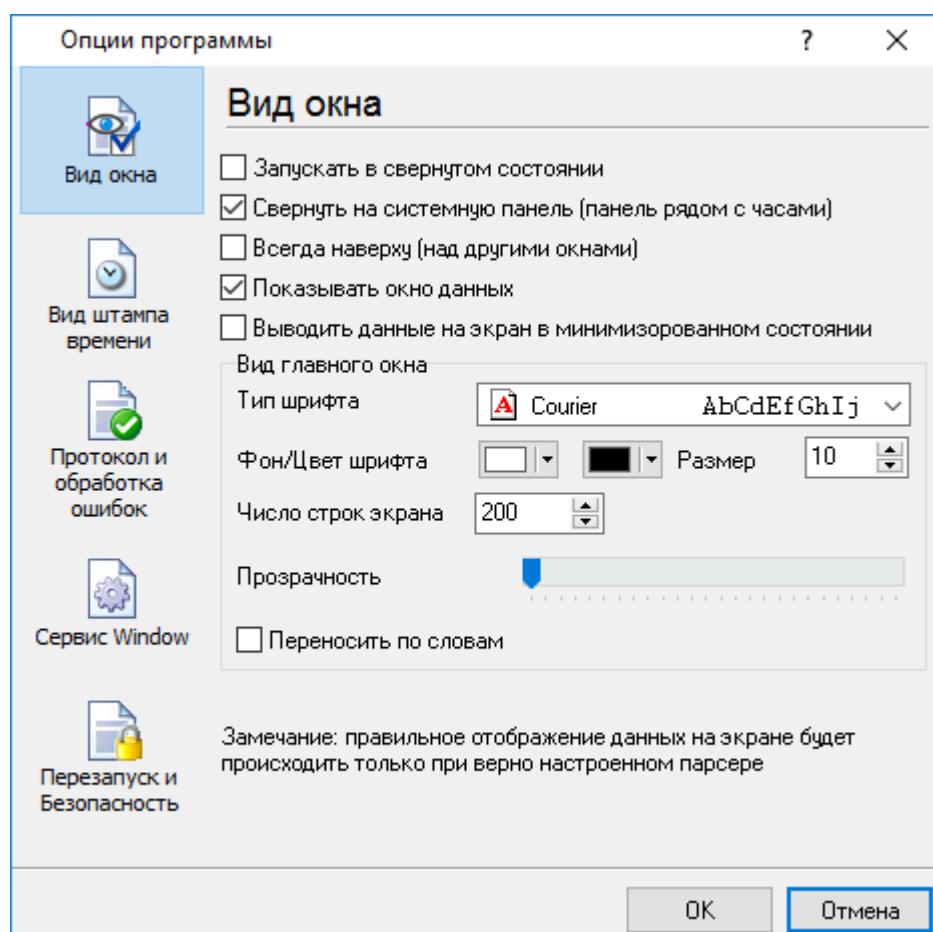


21.

"OK".

5.5

5.5.1

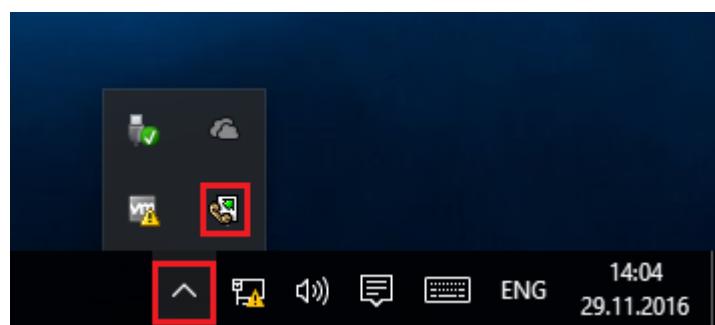


. 22.

" " (. 22)

Advanced OPC Data Logger

(. 23)



.23.

(. 23) -

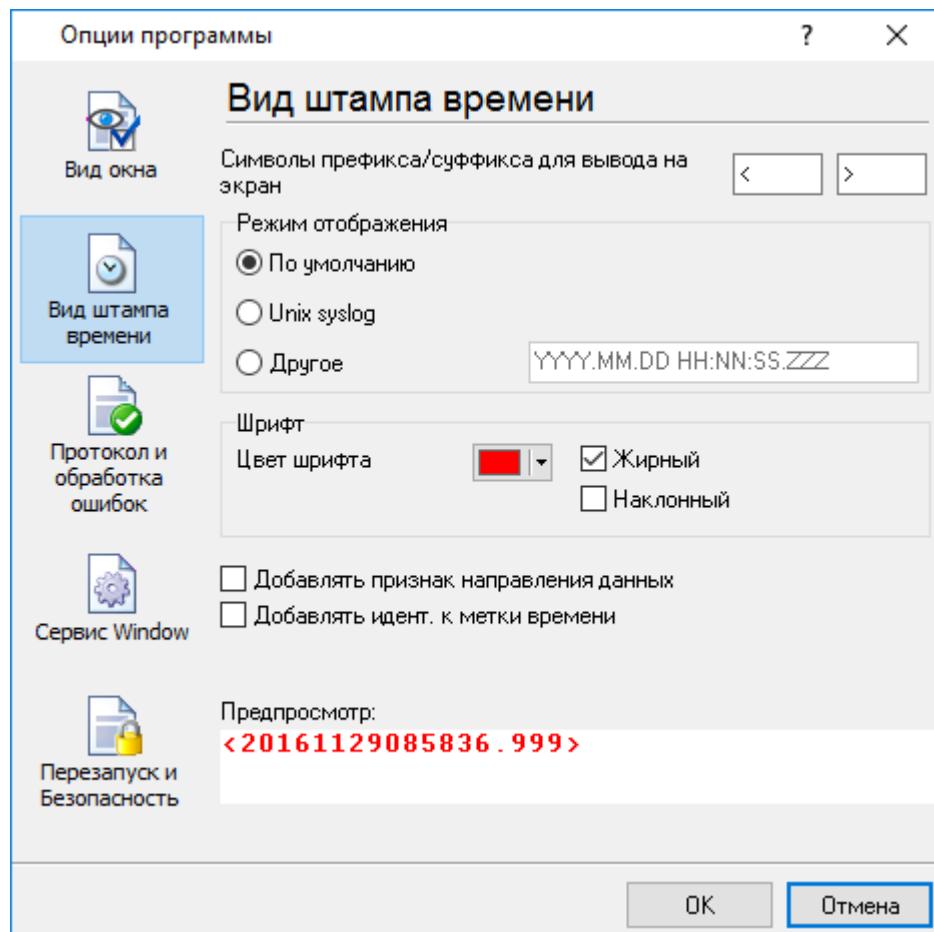
Advanced OPC Data Logger

);

- Windows 2000

5.5.2

(. 24)



. 24.

/

[27]

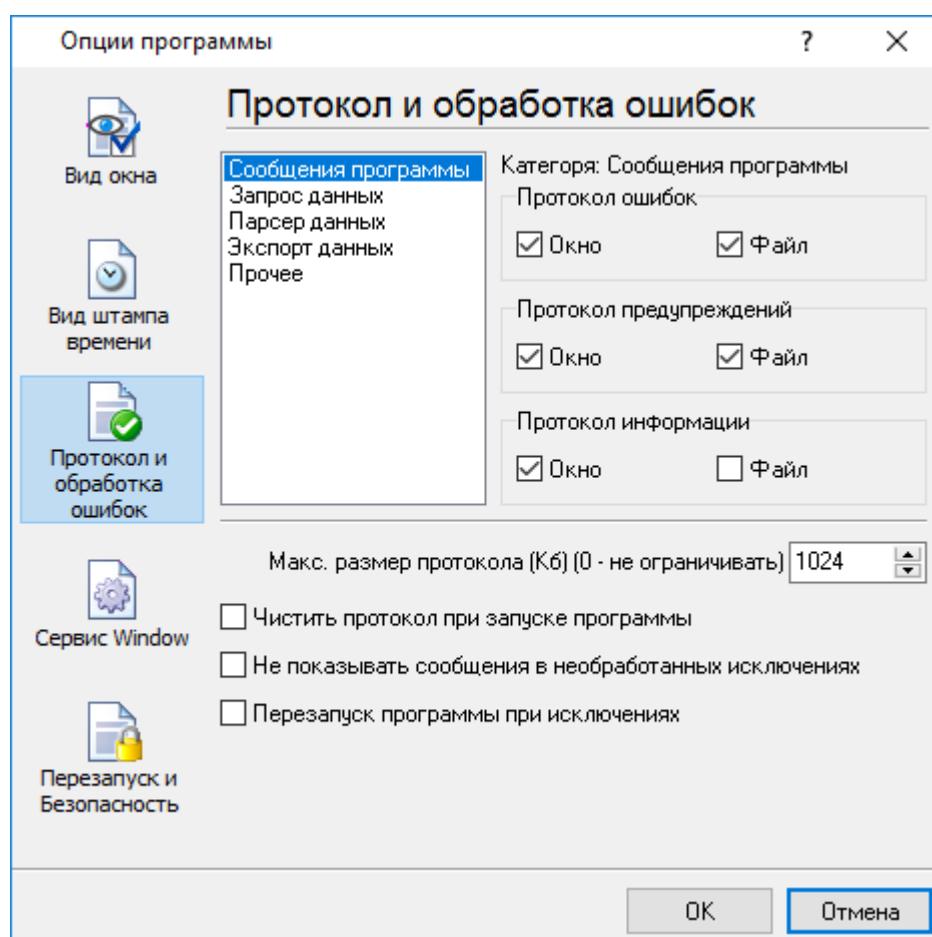
TX

RX

, COM1.

5.5.3

(. .).
 " ,
 " (. . 25).
 +
 .log.



. 25.

Advanced OPC Data Logger

3-

- ;
- ;
- ;

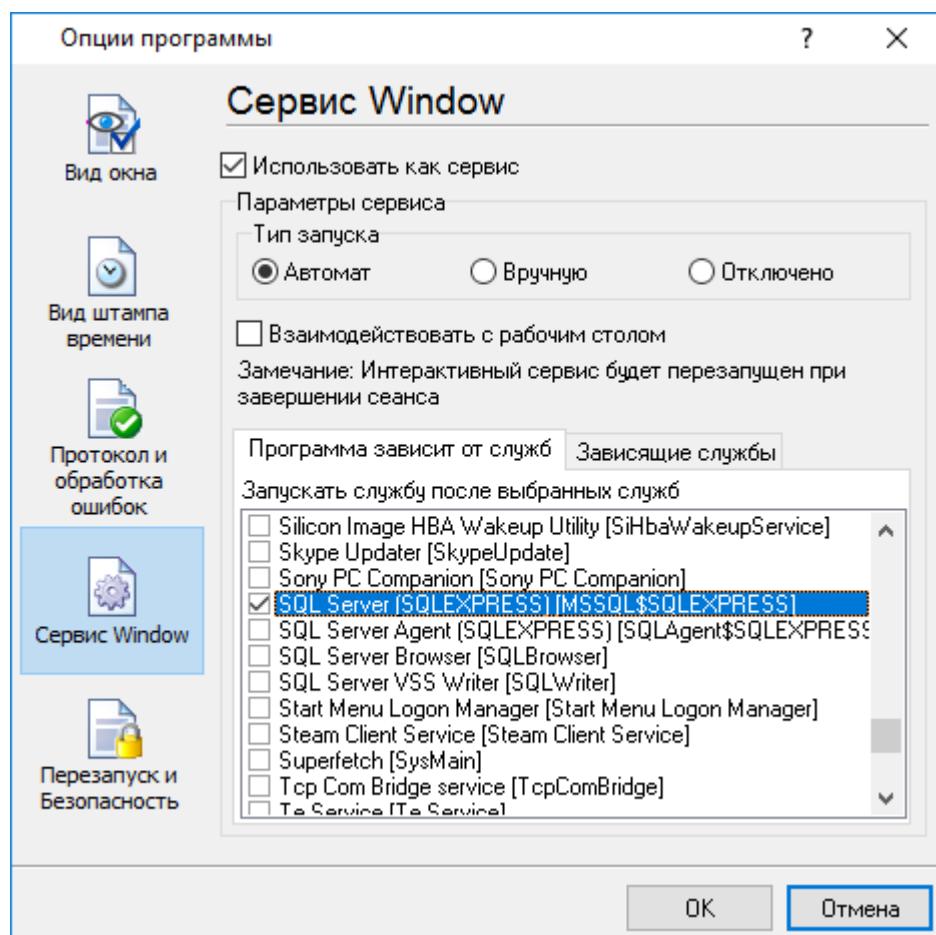
- , - , ;
 - - , ;
 - - , ;
 - - , ;
- /
- " , "
- " , "

Advanced OPC Data Logger

5.5.4 Windows 2000

5.5.4.1

- () Windows :
 - (); Windows 2000
 - ();
 - , ;
 - ;
- ;
-).
- (elevated)*
- " , " , ,
Windows Vista
";
- " , " , " ,
Windows" (. 26).



. 26.

1. - Windows

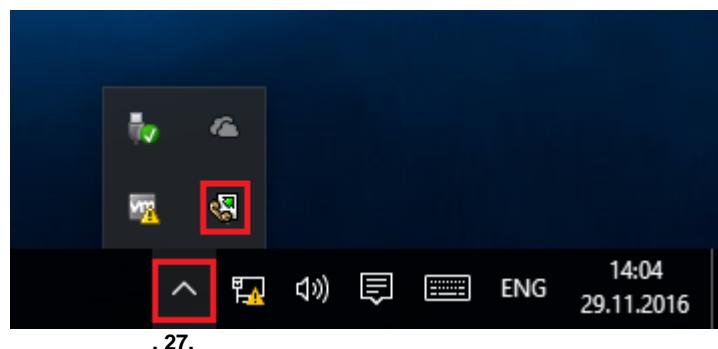
2. - " " ;

3. -

" " .
" , . Windows

(. 27).

 46 Windows Vista



.27.

Advanced OPC Data Logger, " " " (. 26)

" " " (. 28).

Службы					
	Имя	Описание	Состояние	Тип запуска	Вход от имен
	Advanced Serial Data Logge...	Logging of...	Выполняется	Автоматич...	Локальная си...
	BranchCache	Эта служб...	Вручную	Сетевая служ...	
	CDPSvc	CDPSvc	Вручную	Локальная сл...	
	CoreMessaging	Manages c...	Выполняется	Автоматич...	Локальная сл...
	DataCollectionPublishingSe...	The DCP (...	Вручную (ак...	Локальная си...	
	DHCP-клиент	Регистрир...	Выполняется	Автоматич...	Локальная сл...
	dmwappushsvc	Служба м...	Выполняется	Автоматич...	Локальная сл...
	DNS-клиент	Служба D...	Выполняется	Автоматич...	Сетевая служ...
	embeddedmode	Embedded...		Вручную (ак...	Локальная сл...

.28.

(Windows 2000)

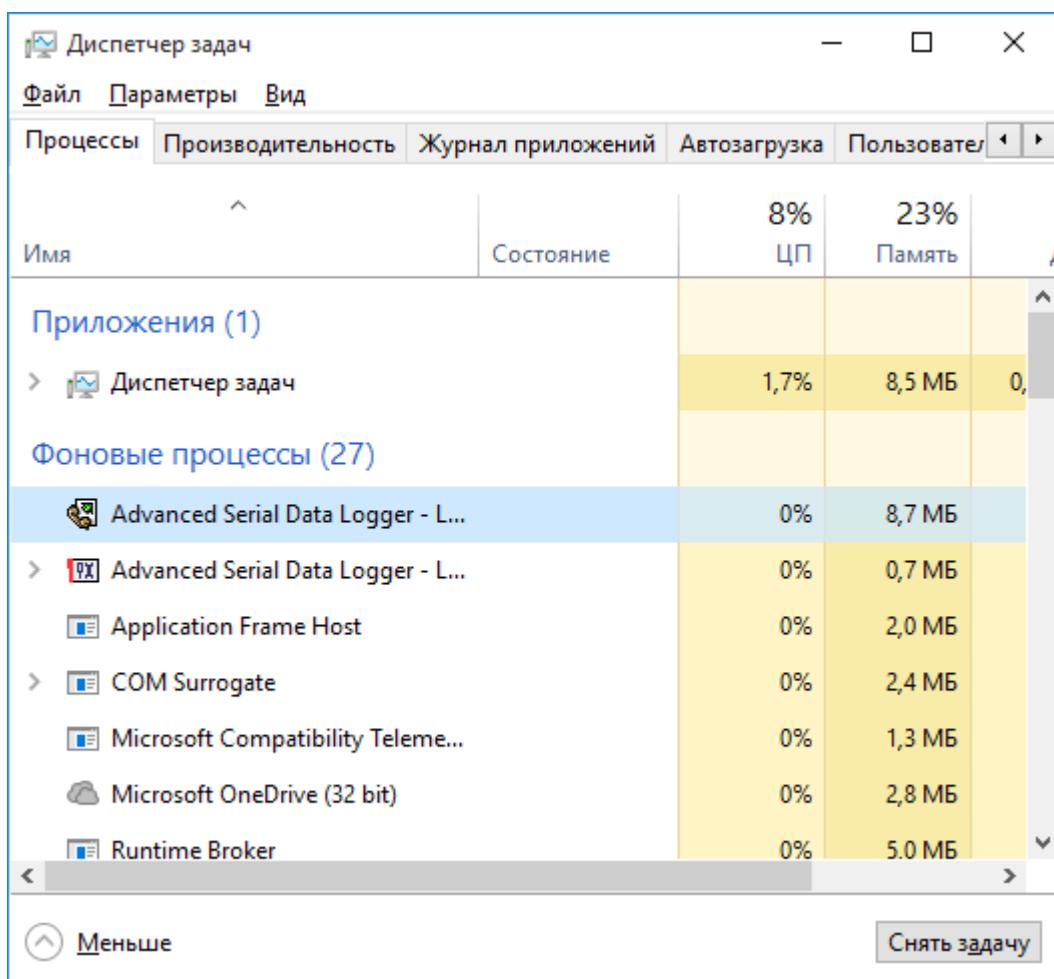
opclogger.exe (. 29).

2 - opcloggersrv.exe

Advanced OPC Data Logger

Advanced OPC Data Logger,

srvany.exe



29.

opcloggersrv.exe

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

5.5.4.2**Windows Vista**

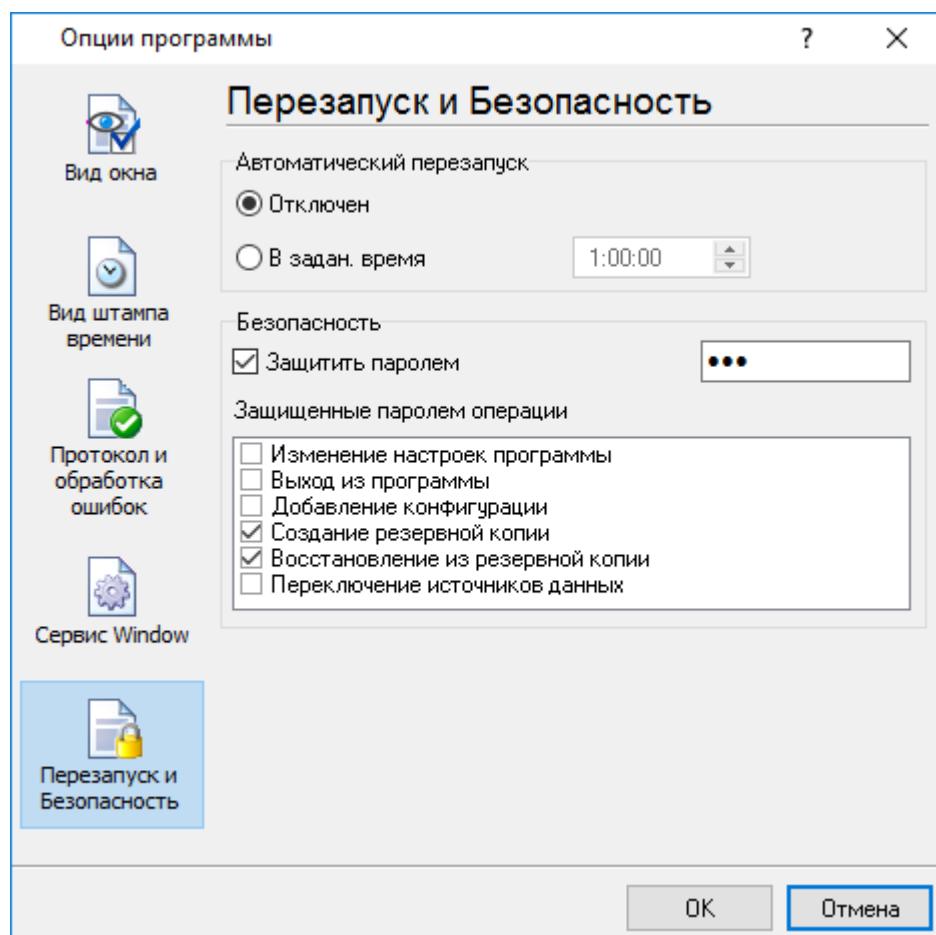
Windows Vista

Windows.

- : Interactive Services Detection
- : UI0Detect
- : UI0Detect.exe
- :
- : %windir%\system32\UI0Detect.exe
- :
- 1. Home Basic:
- 2. Home Premium:
- 3. Business:
- 4. Enterprise:
- 5. Ultimate:

5.5.5

(. 30).



30.

6

?

6.1

SoftIce

support@aggsoft.ru