



Advanced PBX Data Logger

1		1
1	O Advanced PBX Data Logger	1
2	.....	2
2	,	4
1	.....	4
2	.....	5
3	.....	5
4	.....	6
3		6
1	.....	6
2	.....	7
4		7
1	.....	7
2	.....	9
3	.....	11
4	.....	12
5	.....	12
5		13
1	.....	13
	(COM)	13
2	.....	18
	TCP/IP	18
3	TAPI	25
	TAPI	25
	.....	26
4	.....	26
	.....	26
	.....	28
	.....	30
5	-	31
	-	31
	-	34
	.....	36
6	.....	37
	.....	37

7	OPC	41
	.....	45
	.....	45
	.....	47
	.....	48
	Windows 2000	49
	.....	49
	Windows Vista	52
	.....	53
6	RS-232	0
1	RS-232	0
2	DB9 (9 pin) RS-232	0
3	DB25 (25 pin) RS-232	0
4	RS-232	0
5	RS-232	0
7	?	54
1	.....	54

1

1.1 O Advanced PBX Data Logger

Private Branch eXchange (PBX Private Business Exchange)

(),

Automatic Branch eXchange). PABX (Private
(PBX,

) SMDR, CDR, CIL. PBX

:

- (RS232) - COM
- () - Advanced PBX Data Logger TCP
UDP
- () - Advanced PBX Data Logger

Advanced PBX Data Logger

TCP UDP, SMDR CIR, RS232, RS845,
, Excel, DDE, OPC.

Advanced PBX Data Logger:

-
- 50 (PBX)
- ; CDR SMDR,
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- MS Excel. MS Excel;
- (MS SQL, Oracle, MS Access, dBase MSSQL, MySQL, ODBC-
.);
- Advanced PBX Data Logger
- DDE OPC ;
- ;
- ;

- ;
- ;
- Windows 9x/Me/
- NT/2000/XP/Vista, x32, x64.
- Windows. Advanced PBX Data Logger
- Windows NT/2000/XP/Vista,

Advanced PBX Data Logger, !

: <http://www.aggsoft.ru/>

: <http://www.aggsoft.ru/pbx-data-logger.htm>

1.2

ASCII - ASCII -

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

Binary File - , ASCII (0 255).

Bytes () - , , .

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

Baud Rate - BPS
(),

600 , 2400 bps (), ,

Cable () - , ,

CDR (Call detail record) - .

COM port - .

IBM IBM-

4 COM1, COM2, COM3 COM4.

Data bits - (),

DNS (Domain Name System) - DNS

(TCP/IP) IP DNS www.aggsoft.com
198.63.211.24.

Flow control -

" "

()

Handshaking -

Internet () - TCP/IP

IP, Internet Protocol () - Internet Protocol,

TCP/IP, IP IP , 'xx.xx'.
xx.xx'.

IP (Internet Protocol) - TCP/IP.

IP , IP : 198.63.211.24.

LAN (Local Area Network) -

NIC, Network Interface Card () -

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

PC () - Personal Computer ().

Ports () -

Protocol () -

RS232, RS423, RS422 RS485 - Electronics Industry Association (EIA)

RS232, RS423, RS422, RS485,
EIA "RS"
(recommended standard).
"EIA".

Stop bits () -
1 2.

SMDR (Station Messaging Detail Record) -
Call detail record CDR.

TCP/IP, Transport Control Protocol / Internet Protocol - TCP IP

TCP/IP
Internet.

(Log file) - (. log) —

2

2.1

Copyright © 1999-2016 AGG Software.
All Rights Reserved

1. Advanced PBX Data Logger -
- 2.
3. Advanced PBX Data Logger ,
4. ,
5. Advanced PBX Data Logger
sales@aggsoft.ru
6. Advanced PBX Data Logger ,

Advanced PBX Data Logger

7. Advanced PBX Data Logger

"AS IS".

8.

9.

Advanced PBX Data Logger

10.

Advanced PBX Data Logger
Advanced PBX Data Logger.

2.2

shareware-

5

21

2.3

shareware-

Internet,

2.4

Advanced PBX 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

Advanced PBX Data Logger.

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

Advanced PBX Data Logger

4

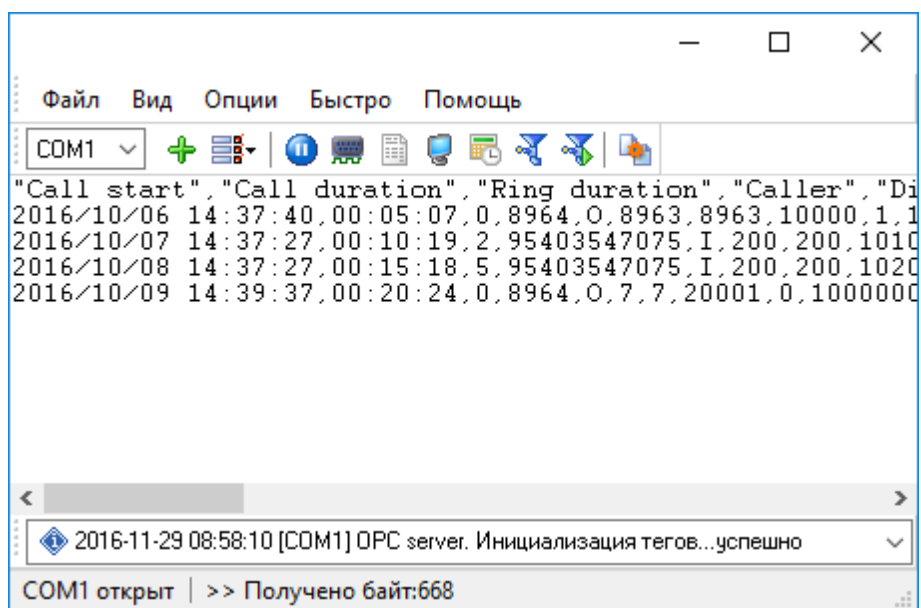
4.1

Advanced PBX Data Logger

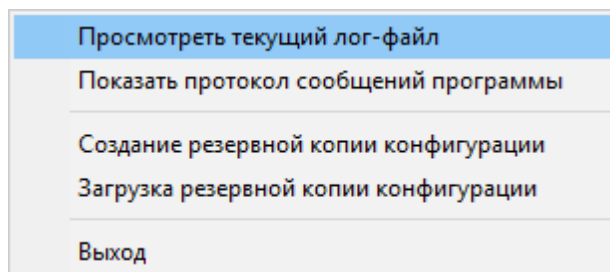
Advanced PBX Data Logger " "

(. 1.1.1),

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



. 1.1.1.



. 1.1.2.

C:\. ,

_____ 9

1-2-3-4

1.

" "

_____ 13

" IP" " COM "

2.

()

" "

()

3.

, _____ 37

4. Advanced PBX Data Logger

Advanced PBX Data Logger

4.2

- RS-232
- RS-485

" (-),

- COM -

13

(NIC).

- Advanced PBX Data Logger IP (NIC),

Advanced PBX Data Logger IP

- Advanced PBX Data Logger DHCP, IP

IP . 0.0.0.0.

TCP/IP 18

_____ [31]

_____ [34] - _____

(1.1.1 [7]).

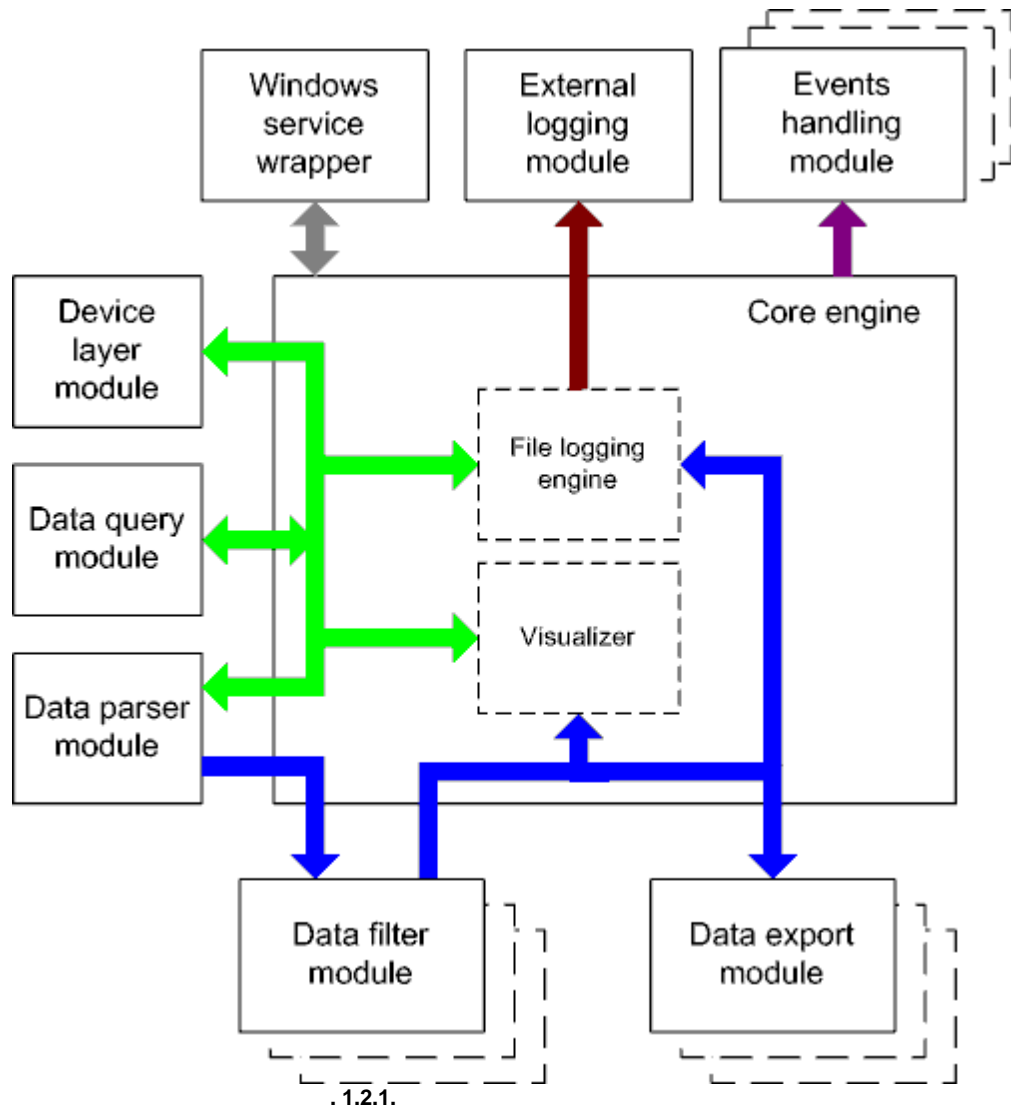
Advanced PBX Data Logger "_____ [26]", _____ [45].

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

_____ [37].

_____ [48] (_____ (1.1.1 [7]) _____

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. / COM-

4.5

1.

2.

1.

2.

regedit.exe

Windows x64

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\AGG Software\Advanced PBX Data
Logger

Windows x32

HKEY_LOCAL_MACHINE\SOFTWARE\AGG Software\Advanced PBX Data Logger

3.

```

:
Ctrl+S - " / " ;
Ctrl+D - " / " ;
Ctrl+P - ;
Ctrl+L - log- ;

```

Ctrl+R -
 Ctrl+E -
 Ctrl+M -

Windows;

4.

∴ -

5.

INI

6.

10

5

5.1

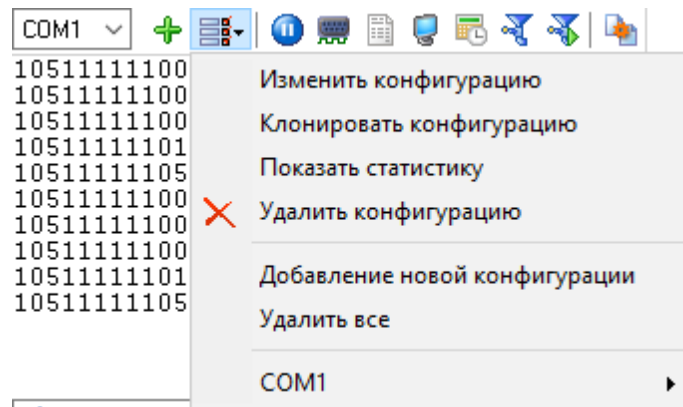
5.1.1

(COM)

([. 1.1.1](#) | 7^h)

(. 2.1.2).
 COM

" (. 2.1.1).



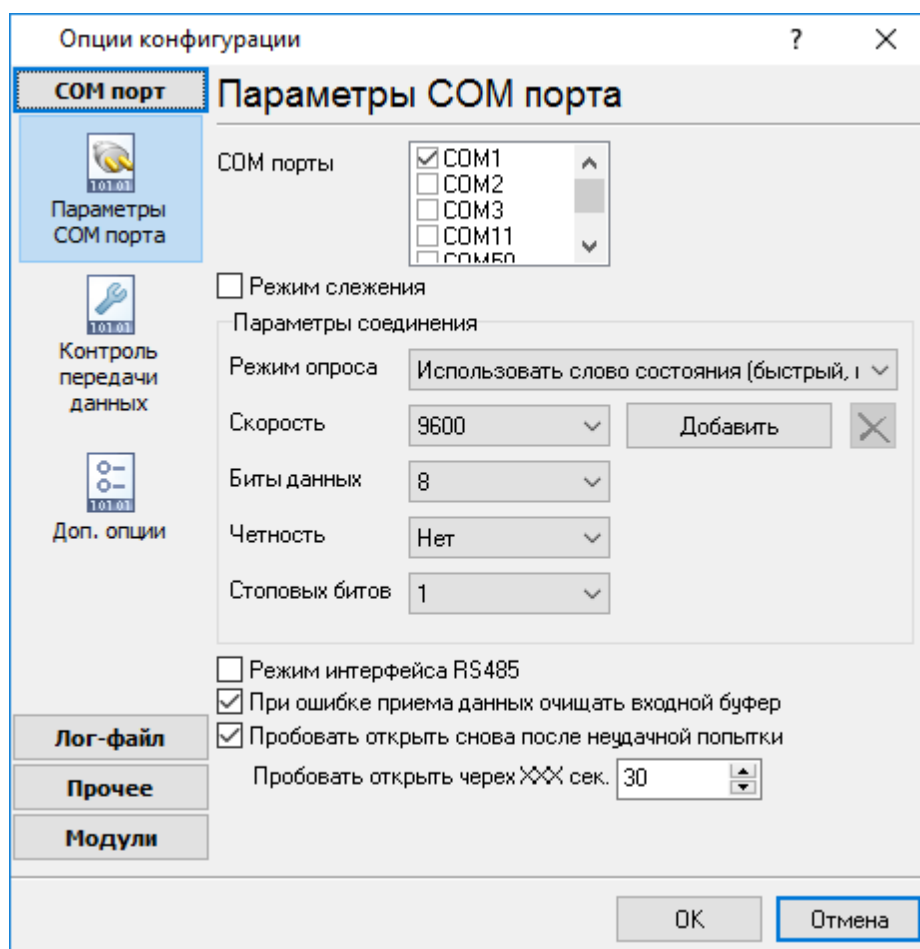
. 2.1.1.

COM-

COM-

COM-

(. 2.1.1).



. 2.1.2. COM-

RS-485

, RTS-

API- Windows
/ : API-
Windows.

API,

Windows

API

API -

. Advanced PBX

Data Logger

(WRPI.DRV

Advanced PBX Data Logger

(2.1.3).

"

"

"

"

RTS" / "

DTR"

(RTS / DTR)

90%

10%

DSR"

Windows

CTS" / "

(CTS / DSR).

RTS CTS
DTR DSR.

"

"

"

"

10 % Xoff " " " " " "

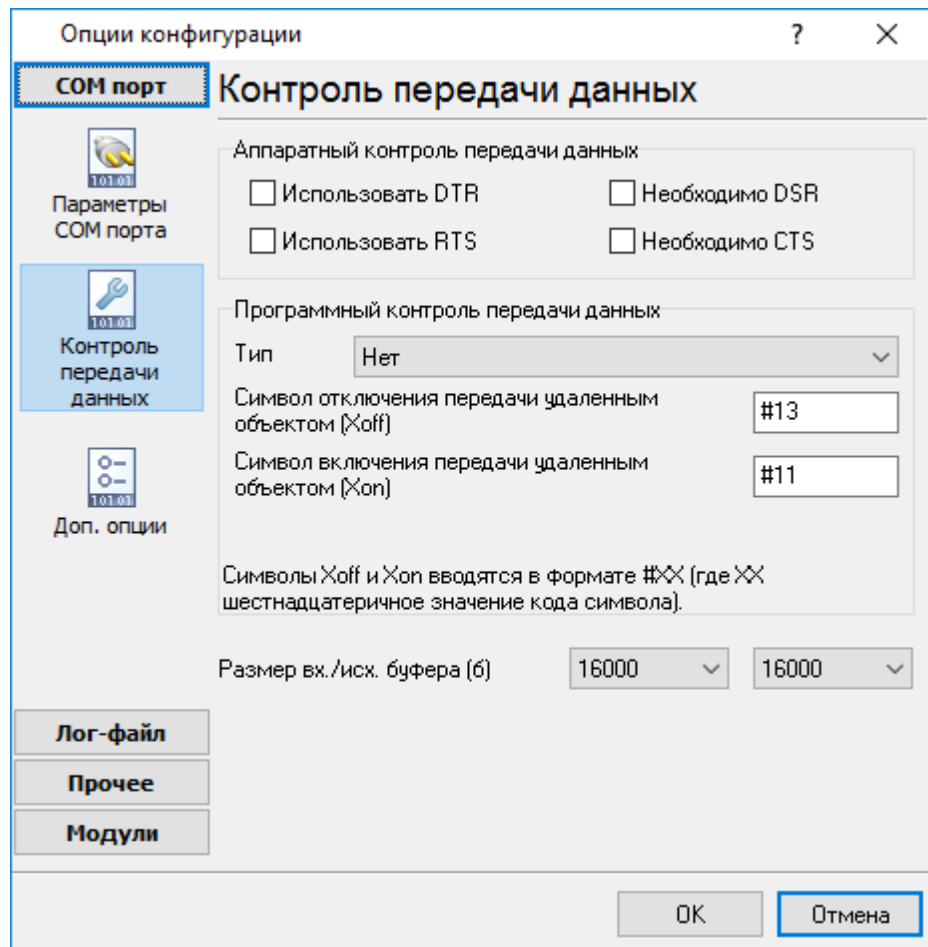
10% Xon.

10% 90% Xoff.

Xon

) (-

0x13 - COM- 0x11



. 2.1.3

/ . COM

Advanced PBX Data Logger

COM-

COM-

Advanced PBX Data Logger,
COM-

Advanced PBX Data Logger.

Messaging, UDP IP. Instant

Advanced PBX Data Logger

TCP/IP

(TCP/IP) Advanced PBX Data Logger

1. TCP/IP, IP, IP, Advanced PBX Data Logger (www.yourserver.com)

"Plant1", IP, IP, IP, Advanced PBX Data Logger, IP

2. IP, Advanced PBX Data Logger (NIC), IP, Advanced PBX Data Logger

Microsoft Windows, TCP/ IP, IP

Advanced PBX Data Logger "OK" TCP/IP.

Data Logger IP, Advanced PBX

Advanced PBX Data Logger

(.1.1.1[7]).

(.1.1.1[7]) (.2.2.2). IP"

TCP/IP

" " (. 2.2.1).

0.0.0.7777

- 1051111110026#0
- 1051111110019#0
- 1051111110033#0
- 1051111110123#0
- 1051111110521#0
- 1051111110026#0
- 1051111110019#0
- 1051111110033#0
- 1051111110123#0
- 1051111110521#0

- Изменить конфигурацию
- Клонировать конфигурацию
- Показать статистику
- Удалить конфигурацию
- Добавление новой конфигурации
- Удалить все

0.0.0.7777

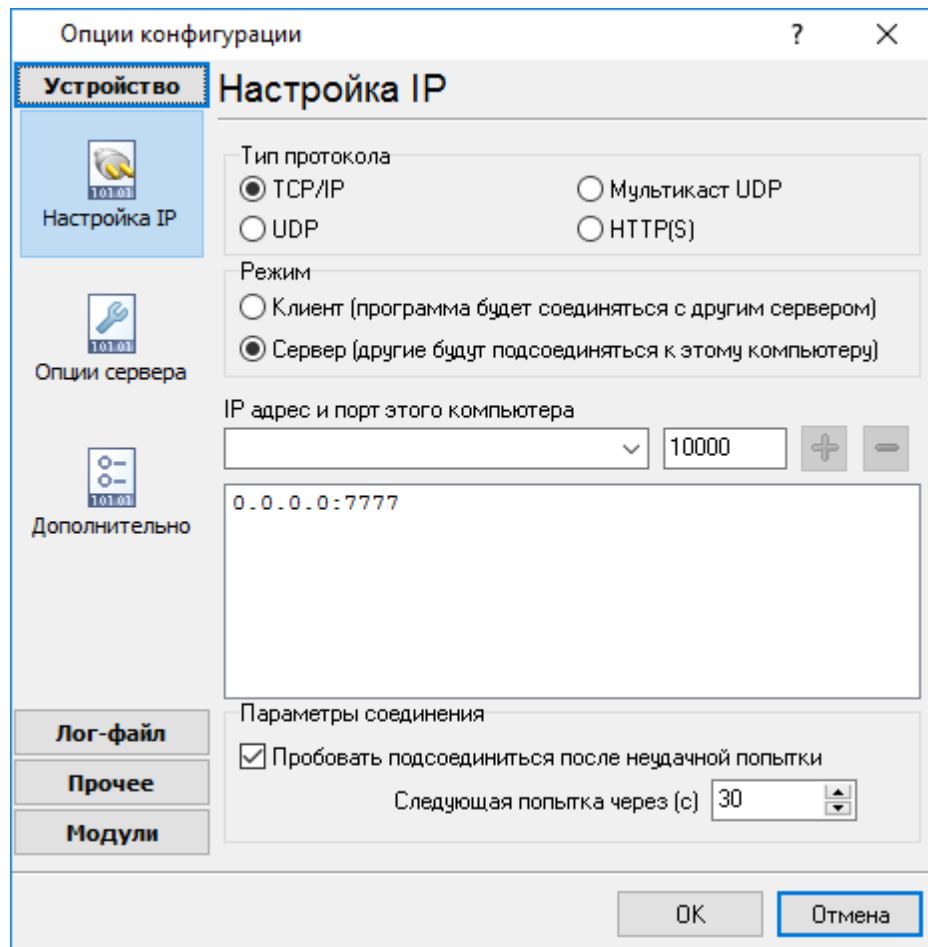
. 2.2.1.

IP: IP

" IP"

" IP "

TCP/



. 2.2.2.

TCP/IP

IP , , , .

SMTP - 25, the telnet - 23, NNTP -

119, . . . ,

SERVICES, Windows (Windows NT

WINNT\SYSTEM32\DRIVERS\ETC). SERVICES -

Advanced PBX Data Logger

(,)

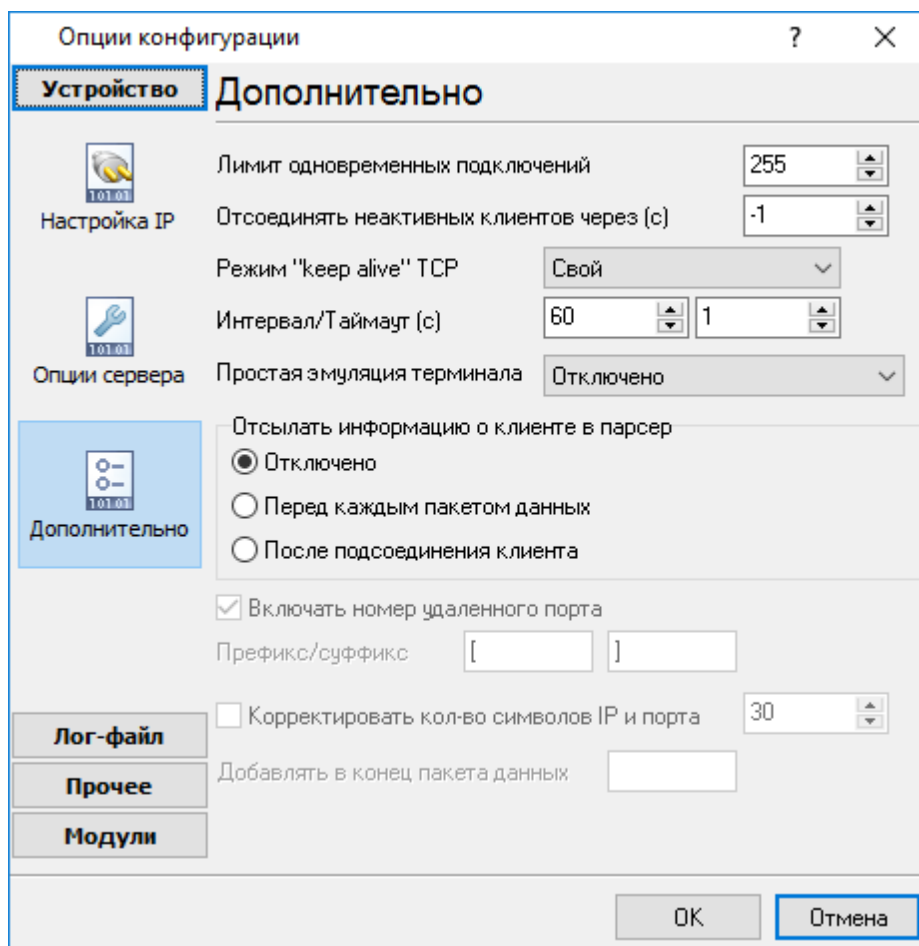
(,)

IP (socket).

IP
IP
(
)
(
)
(
)
" Advanced PBX Data Logger
N " (c)
IP
IP
Advanced PBX Data Logger
IP
(firewall)
Microsoft Windows XP SP2 , Advanced PBX Data
Logger . Windows Firewall,
Windows Firewall ,
(Security Alert).
:

() -

"-1",



. 2.2.4.

TCP/IP

keep-alive TCP () -

keep-alive,

Windows.

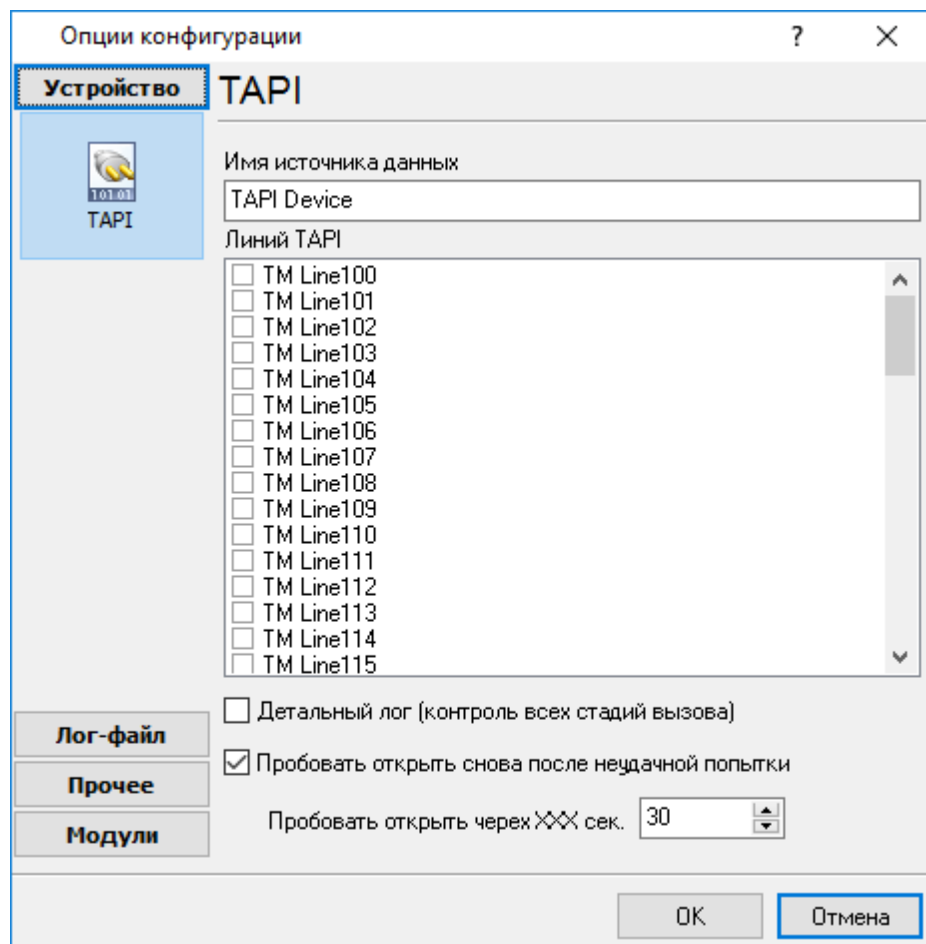
keep-alive

(TCP

UDP):

5.3 TAPI

5.3.1 TAPI



.1

TAPI

(, , , . .).

5.3.2

Panasonic USB

- 1. USB , USB.
- 2. USB (x64 x86)
- 3. TAPI Service Provider (TSP).

Panasonic KX-TDA/TDE/NCP/NS	TSP v4.2 x86 (16,5 MB)
	TSP v4.2 x64 (20,6 MB)
Panasonic KX-Series TSP	Installation Manual (961 KB)
Panasonic KX-TDA, Panasonic KX-TVM, Panasonic KX-TE	USB-driver (610KB v2.3.0.0)
Panasonic KX-TD	TSP (1,6MB v1.2.177)

- 4.
- 5. "TAPI" ,

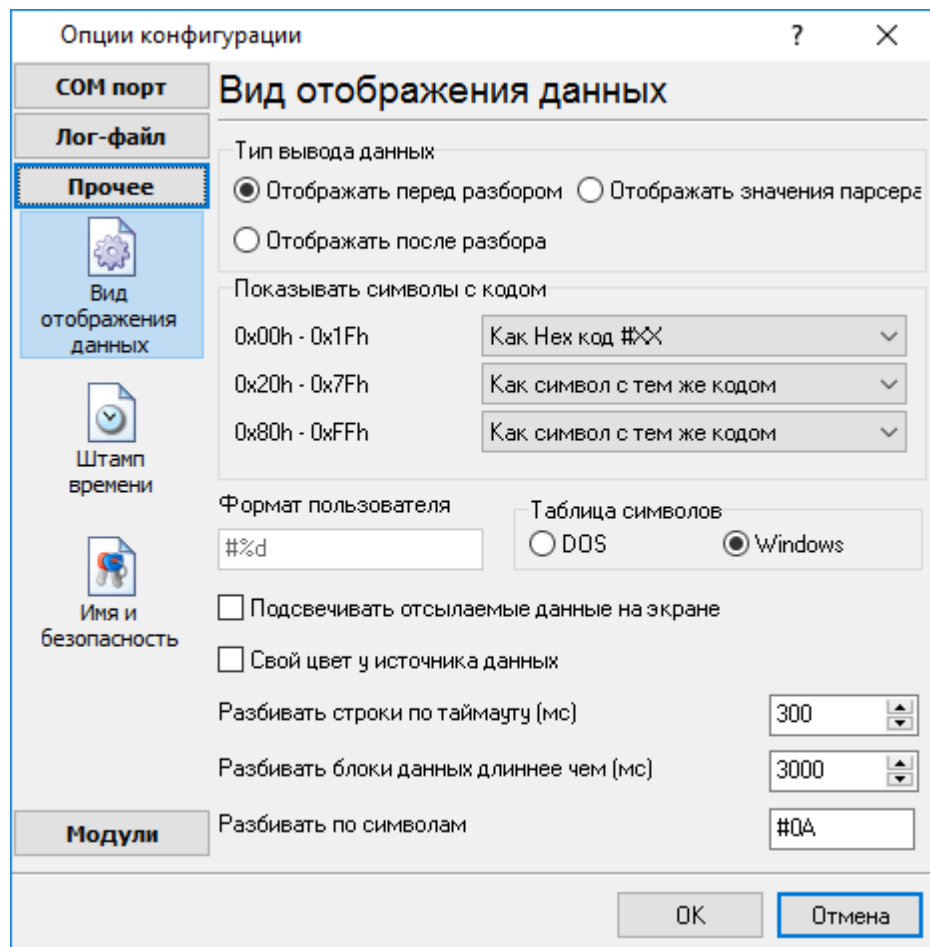
5.4

5.4.1

3.1.1): ([.1.1.1](#)⁷) 2 (.

- 1.

2.



. 3.1.1.

" - " (. 3.1.1)

Hex-

%d

, %x -

(OEM).

: Windows DOS

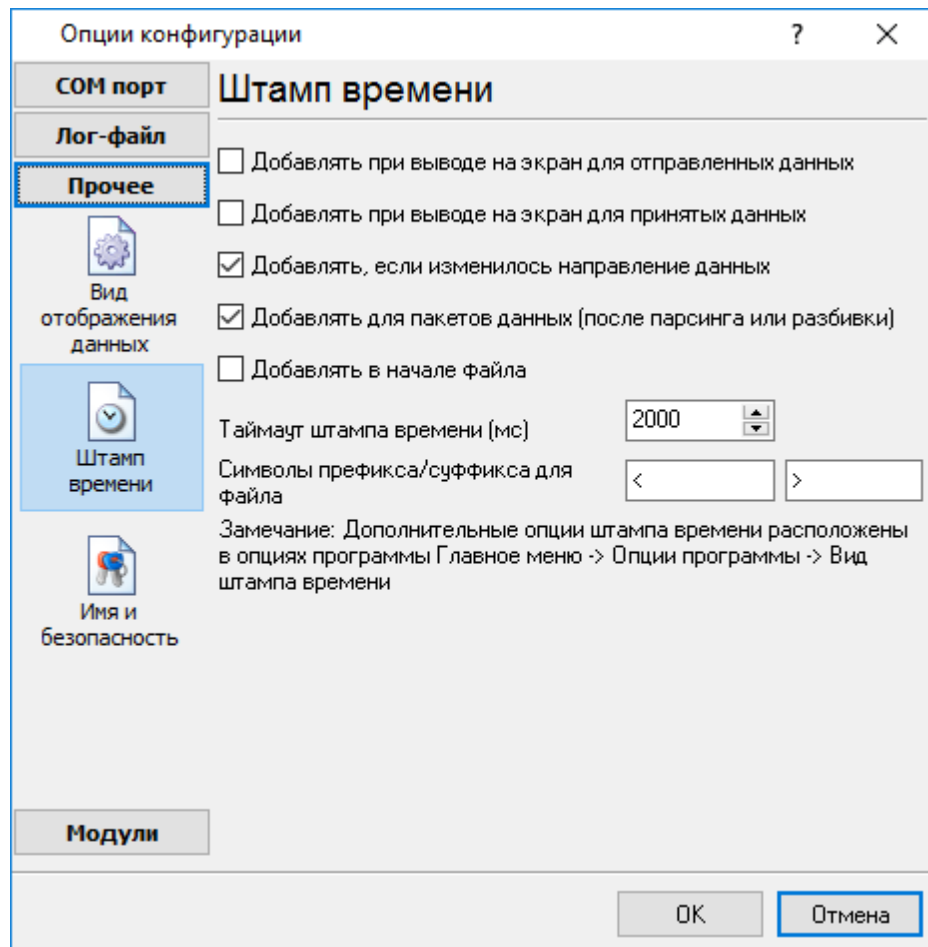
- ,
.
- ,
, 0,
- ,
0,
- ,
,
,
, . 3.1.1

5.4.2

(. 3.2.1)

()

  47.



. 3.2.1.

:>#0D#0A

5.4.3

(. 3.3.1)

:

-

.

-

,

"

"

53

,

"

/

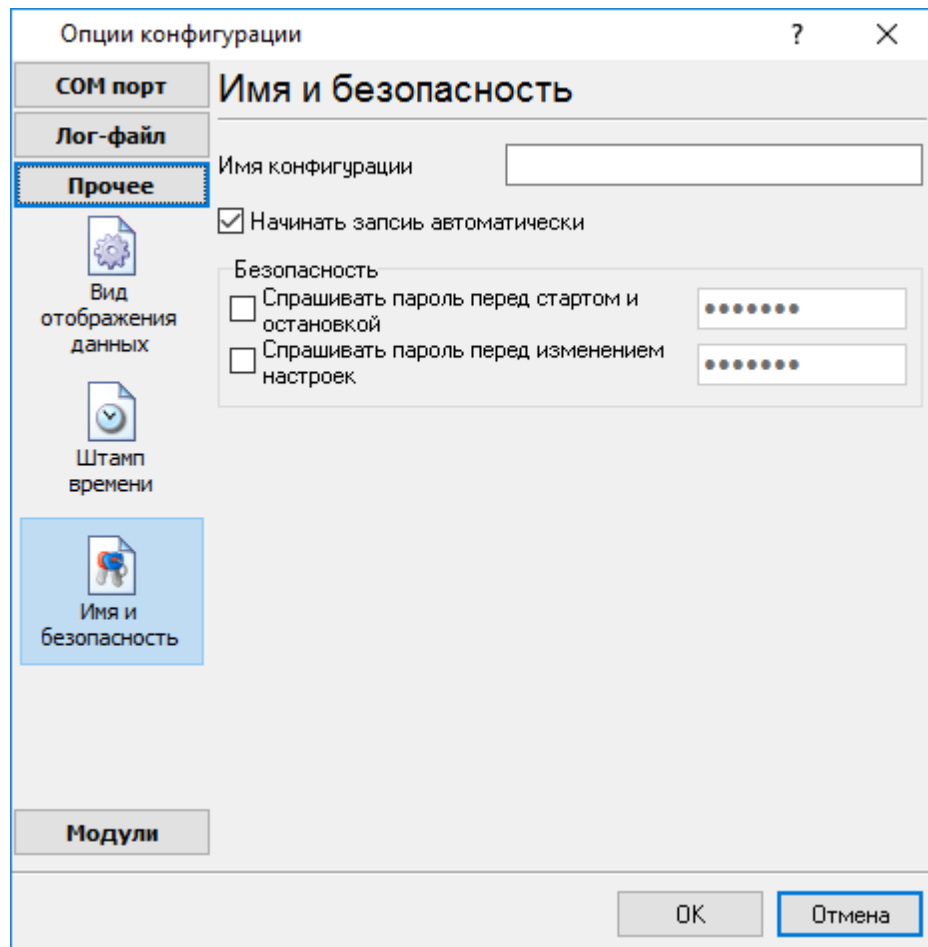
"

-

,

-

,



. 3.3.1.

5.5

-

5.5.1

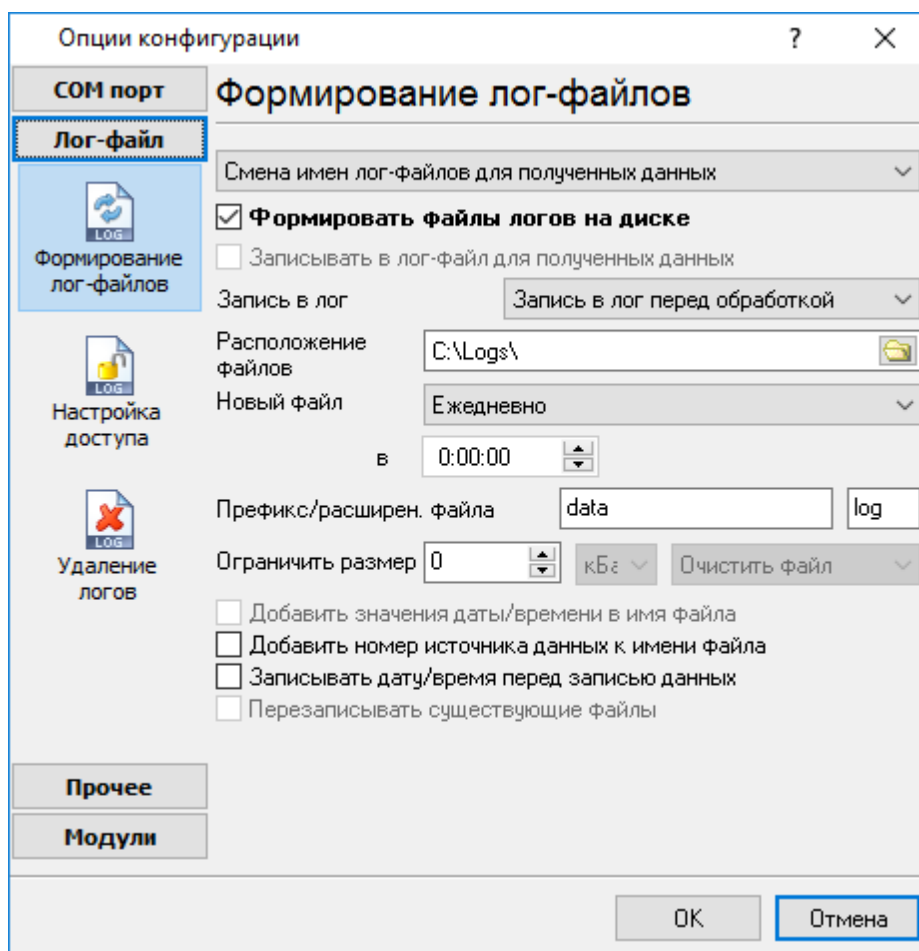
-

-

-

(. 4.1.1).

- ().



. 4.1.1.

"OK".

Advanced PBX Data Logger

"sample",

"log ",

```

"sampleYYYYMMDD.
log". 21- 2003 - "sample20030321.log".
( ).
, , , .
" " :
1. - , .
DDMMYYYY, DD - , MM -
YYYY - ;
2. - .
MMYYYYY;
3. -
YYYYMMDD;
4. -
, . : sample00000001.log.
5. - ;
6. - .
WWYYYYY, WW -
, YYYY -
7. - ,
;
8. - .
HHDDMMYYYYY;
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-

```

```

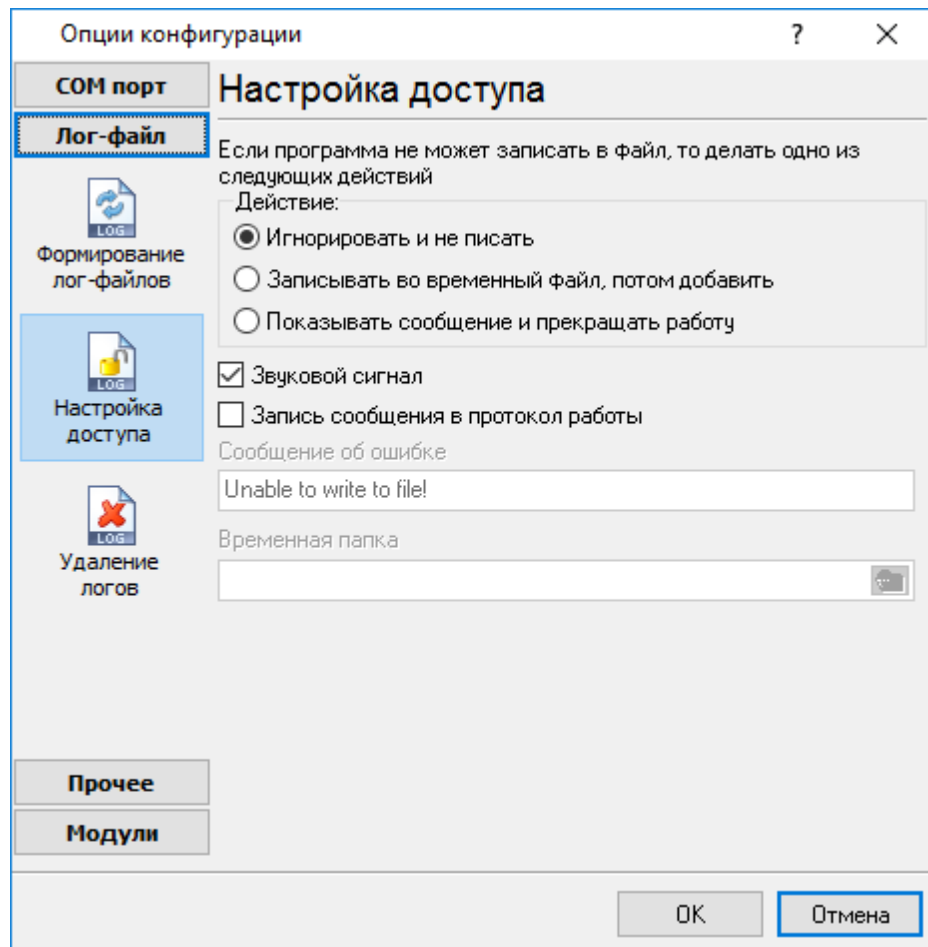
4 7.

```

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

5.5.2

Microsoft Office (, Microsoft Word),
Advanced PBX Data Logger



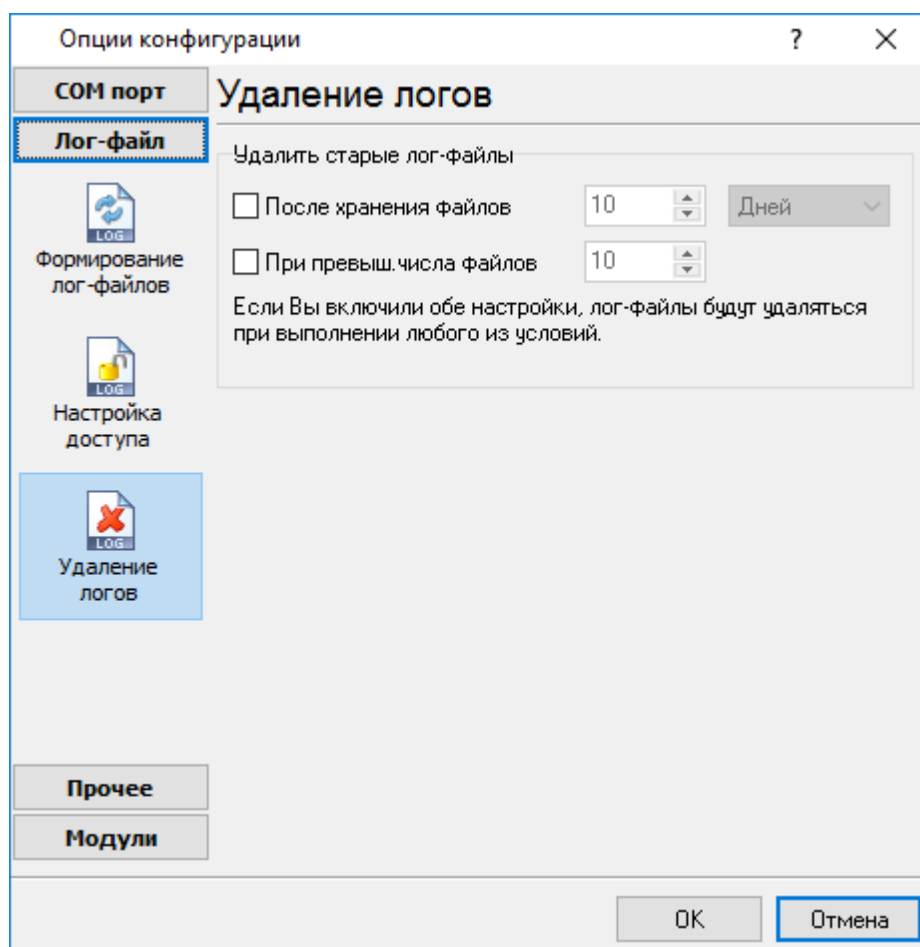
. 4.2.1.

Advanced PBX Data Logger
(. 4.2.1),

-
-
-

5.5.3

(рис. 4.3.1).



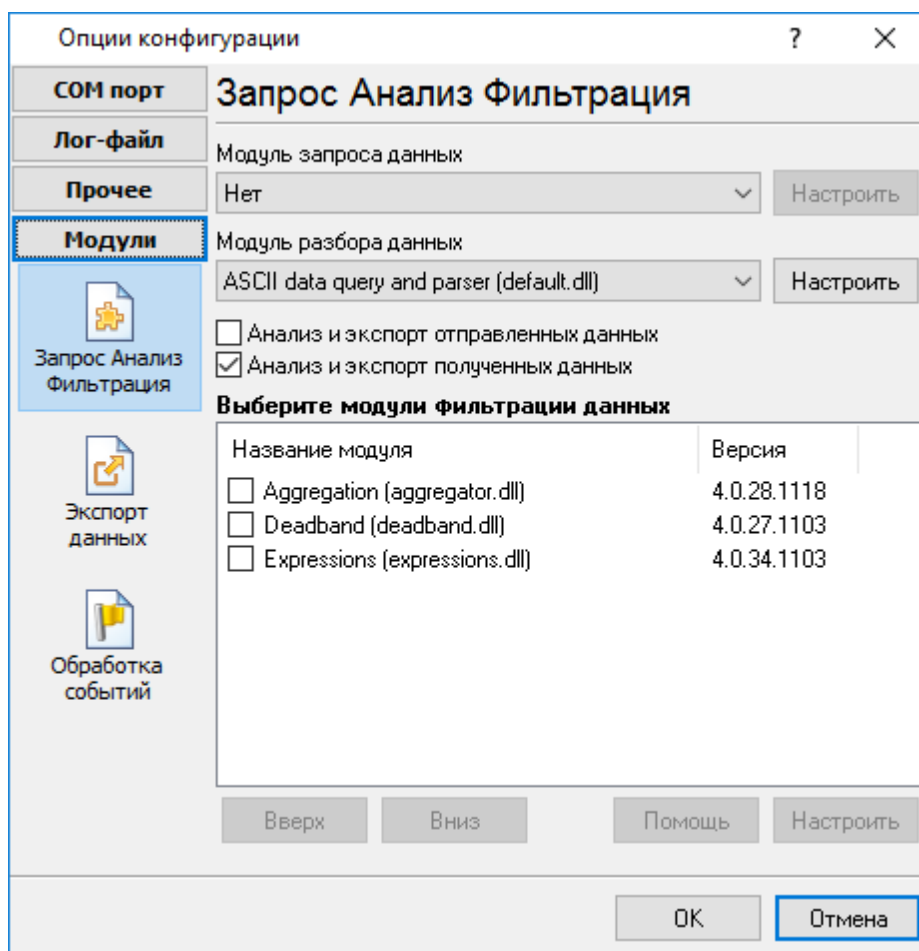
. 4.3.1.

5.6

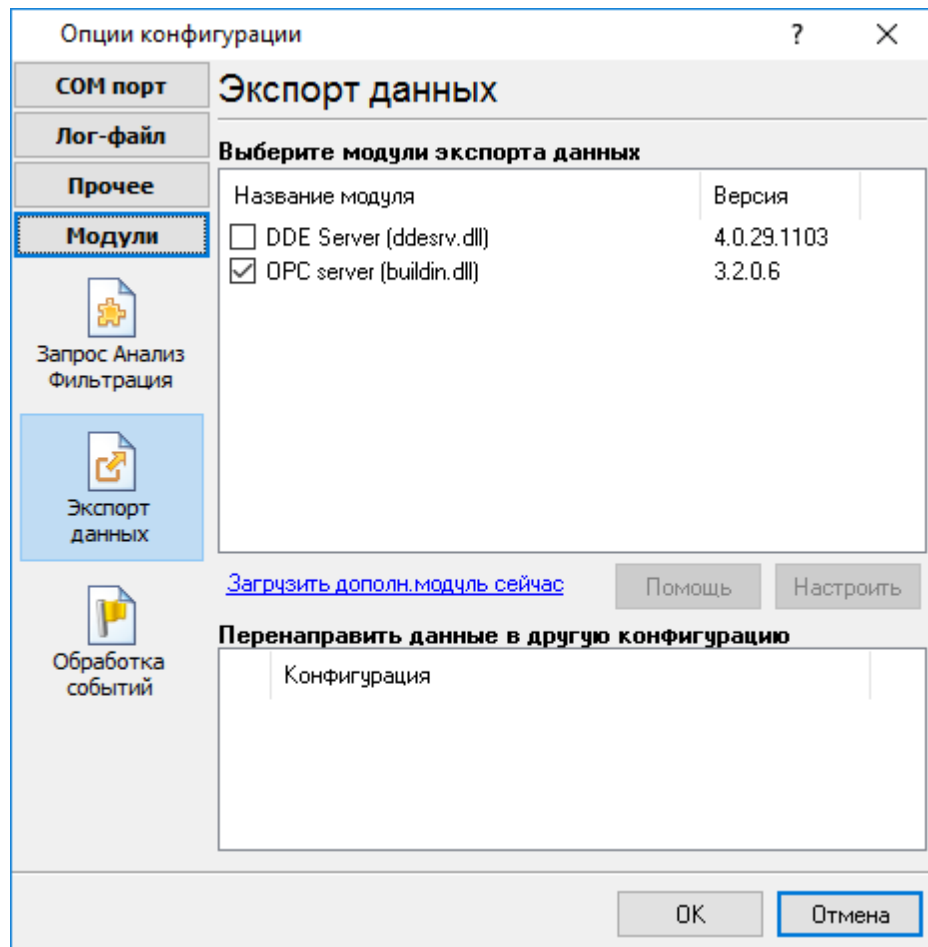
5.6.1

Advanced PBX Data Logger :

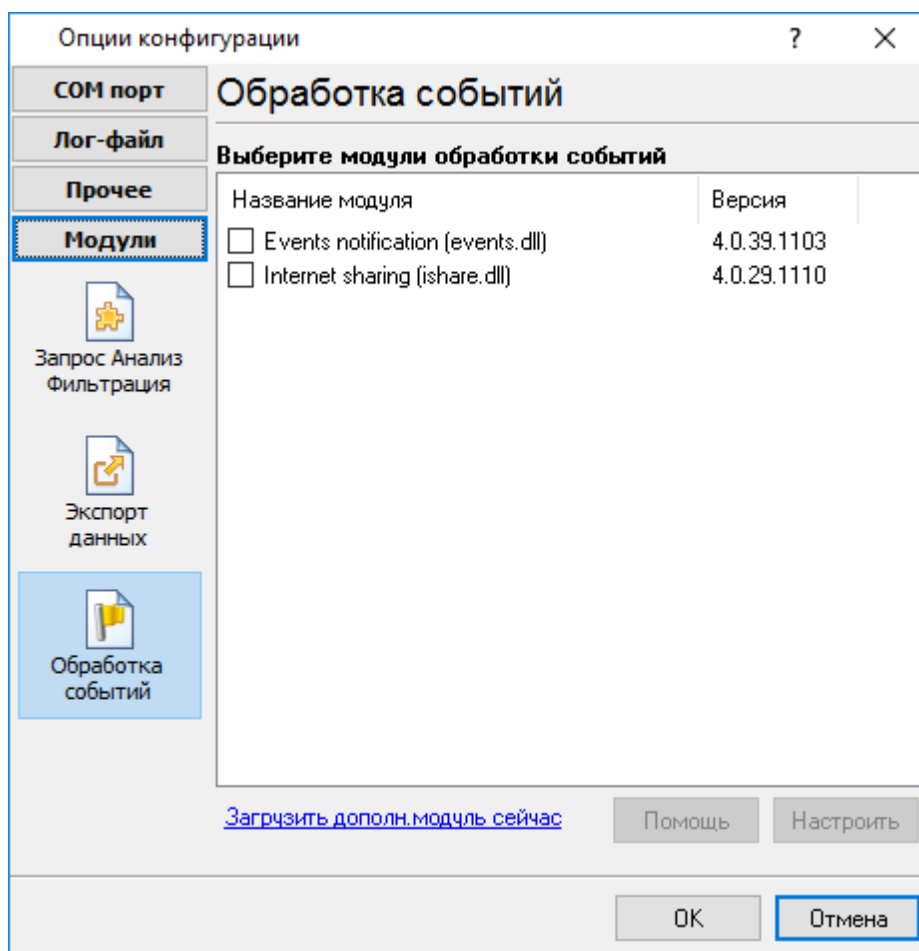
- - ; (, ,) - ()
- - ;
- - ;
- - , Excel ;
- (. 5.1.3) - Advanced PBX Data Logger. , " - " "



. 5.1.1.



. 5.1.2.



. 5.1.3.

"OK".

5.6.2 OPC

Advanced PBX Data Logger

OPC.

OPC

Advanced PBX Data Logger

(. 5.2.1).

OPC

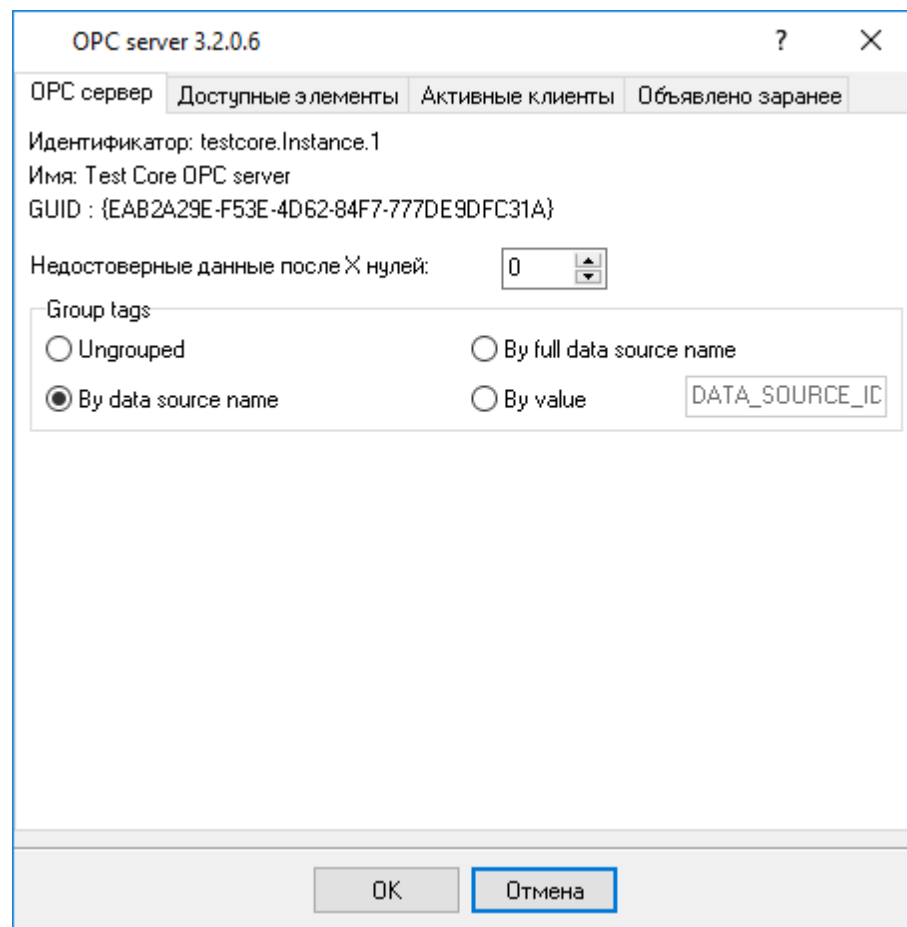
OPC Core Components Redistributable

www.opcfoundation.org

()

OPC

OPC



. 5.2.1.

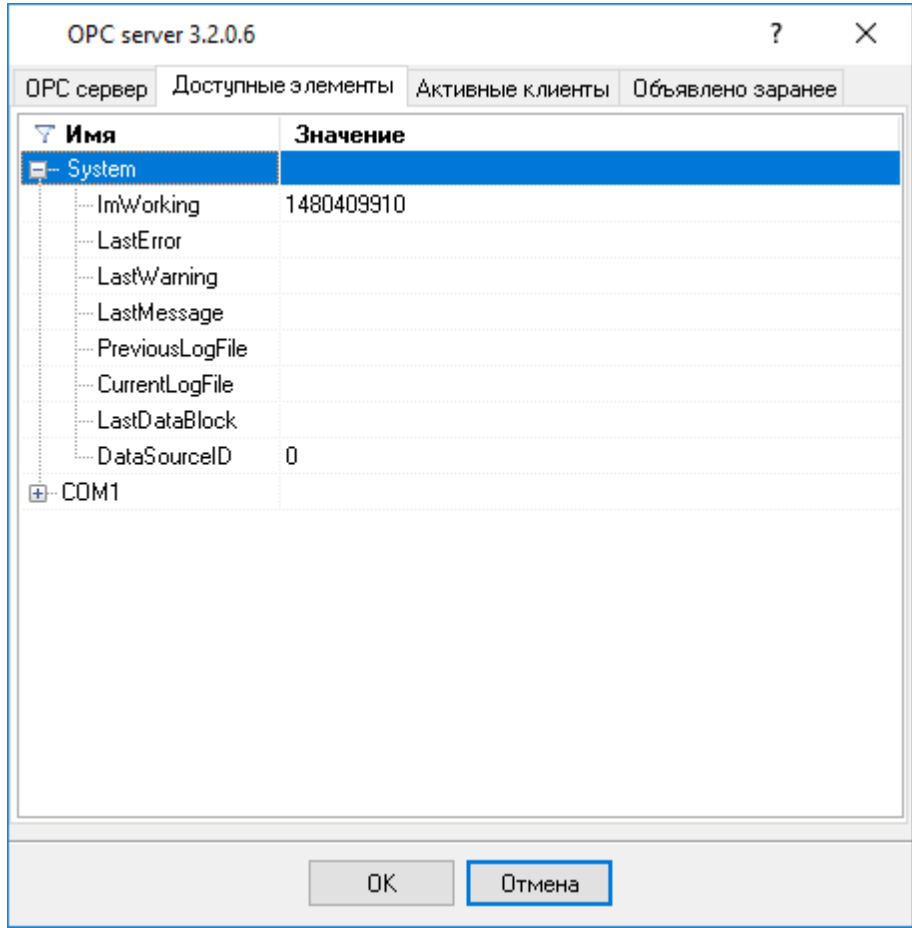
OPC

Advanced PBX Data Logger,

OPC

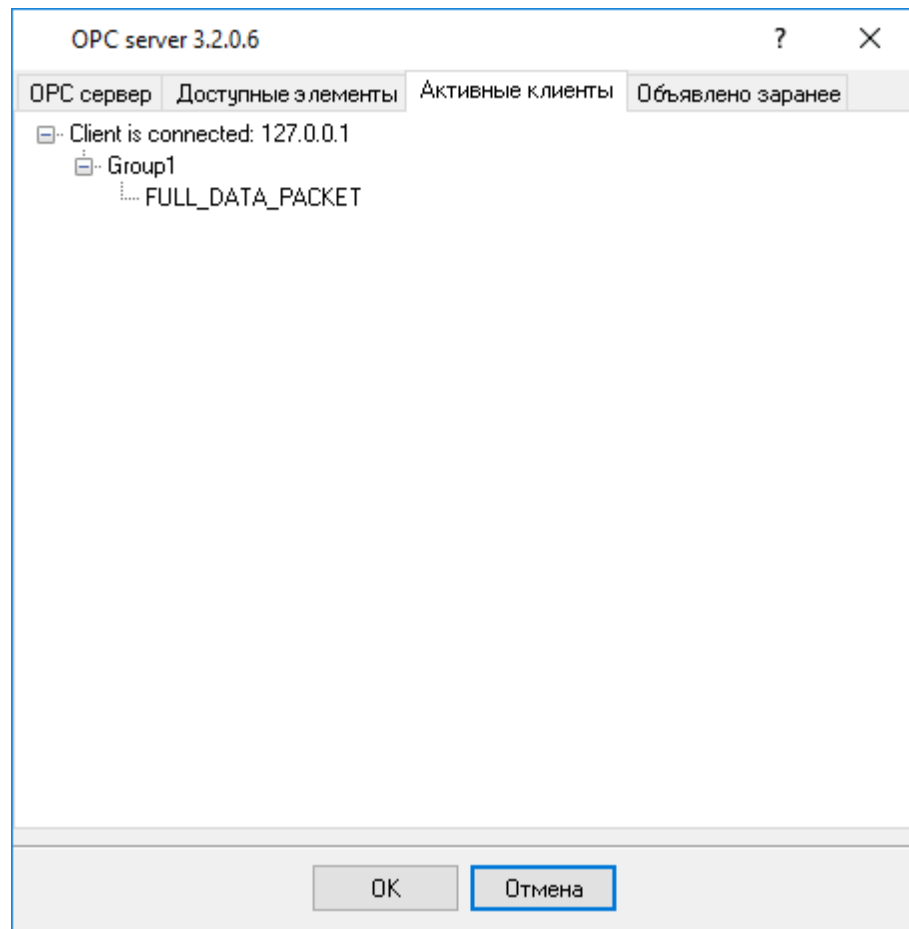
(.2).

OPC



. 5.2.2.

OPC



. 5.2.3.

Advanced PBX Data Logger

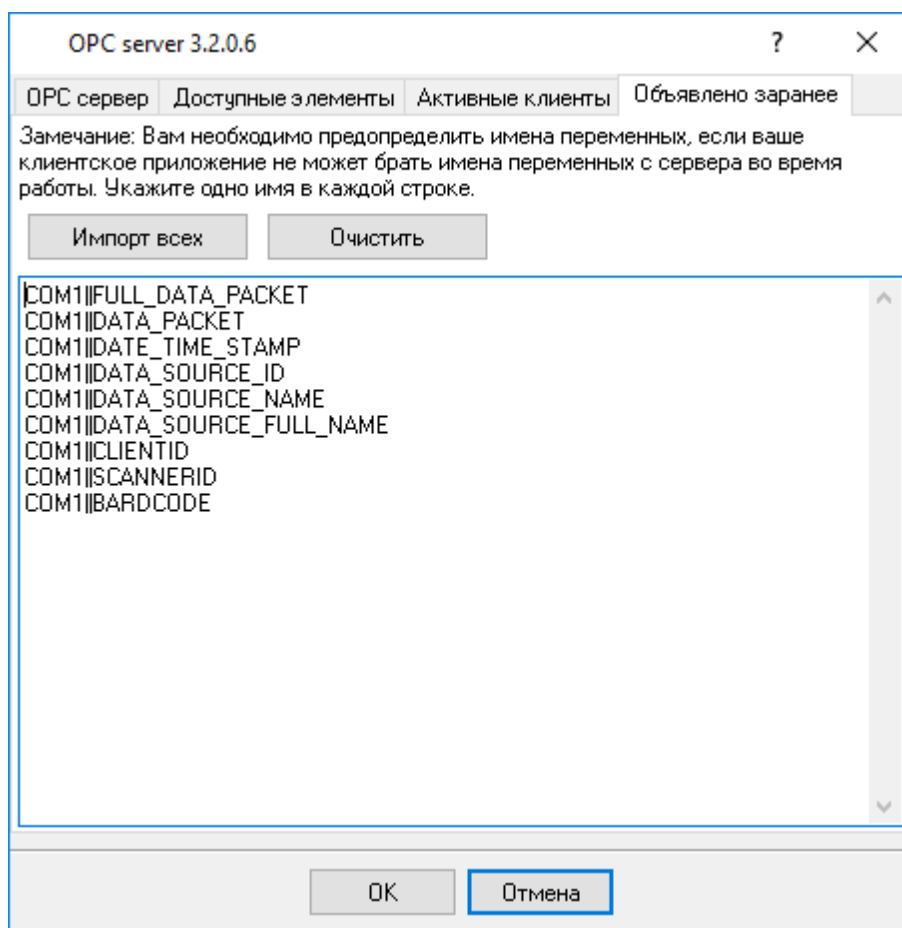
"

". Advanced PBX Data Logger

OPC

(.4).

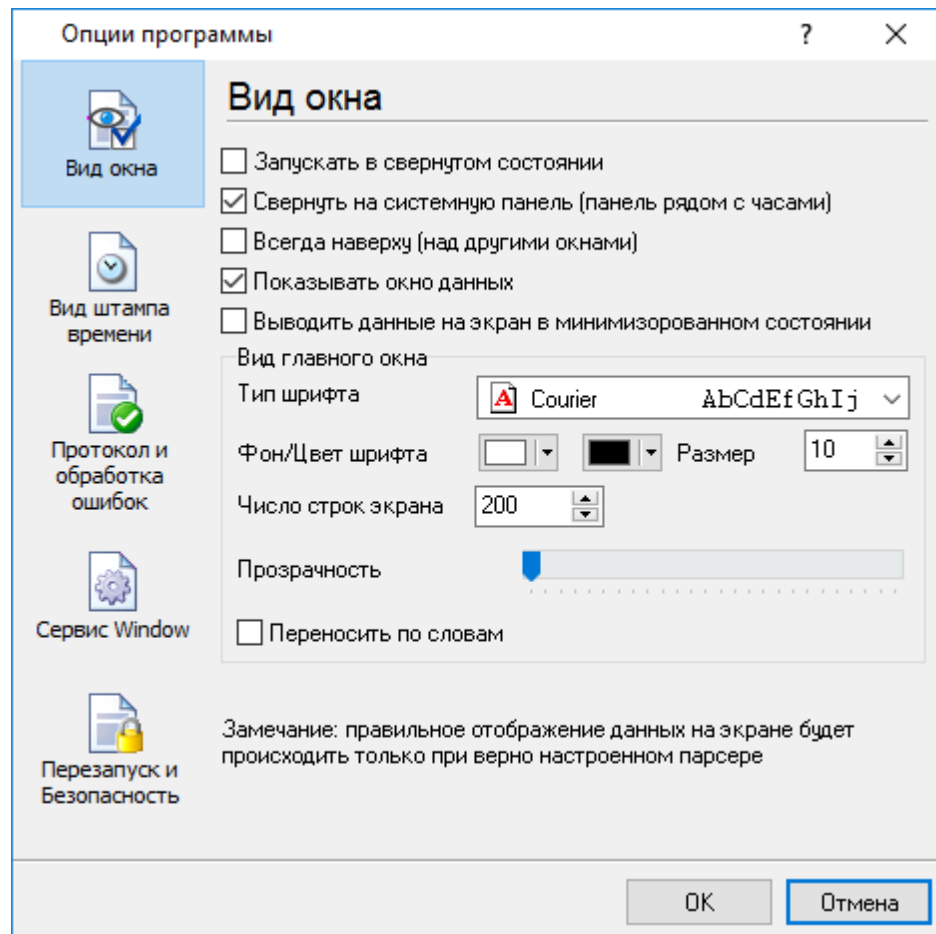
OPC
OPC



. 5.2.4.

5.7

5.7.1

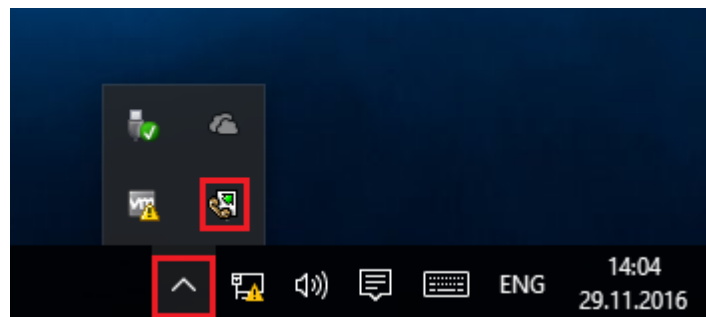


. 6.1.1.

" (. 6.1.1) :

- Advanced PBX Data Logger

(. 6.1.2) ;



. 6.1.2.

-

(. 6.1.2) -

Advanced PBX Data Logger

;

;

-

/

;

);

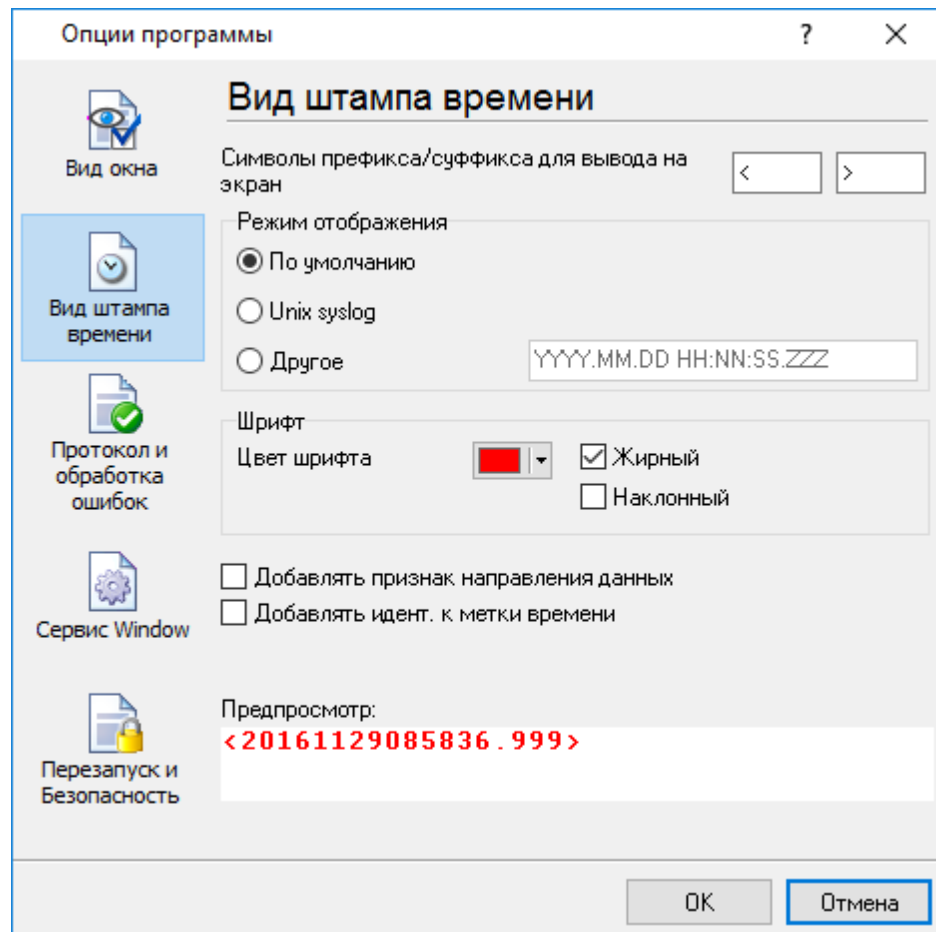
(, ,

- Windows 2000

;

5.7.2

(. 6.2.1)



. 6.2.1.

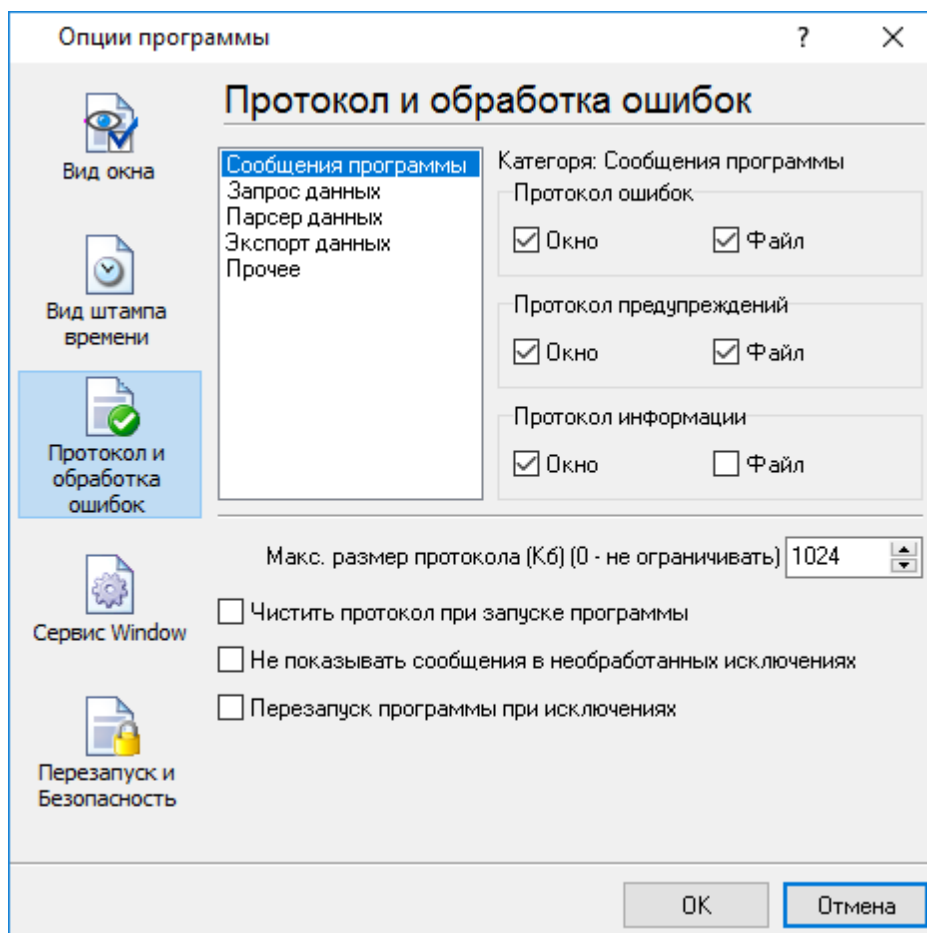
TX

RX

, COM1.

5.7.3

.log.



. 6.3.1.

Advanced PBX Data Logger

3-

-
-
-

```

    • - ;
    • - ;
    • - ;
    • - ;
  
```

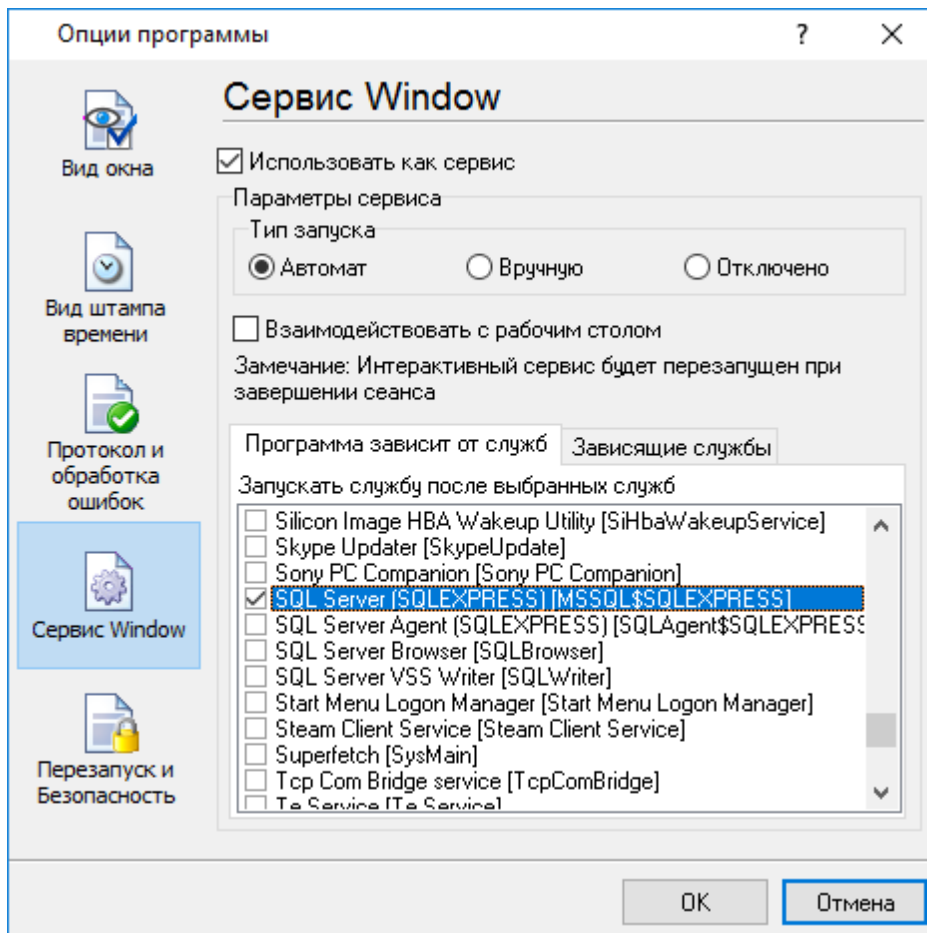
Advanced PBX Data Logger

5.7.4
5.7.4.1

Windows 2000

```

( ) Windows :
  • 2000 );
  • - ( Windows );
  • ;
  •
  )
  ( Windows Vista
  (elevated)
  " " " Windows" ( . 6.4.1).
  
```



. 6.4.1.

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

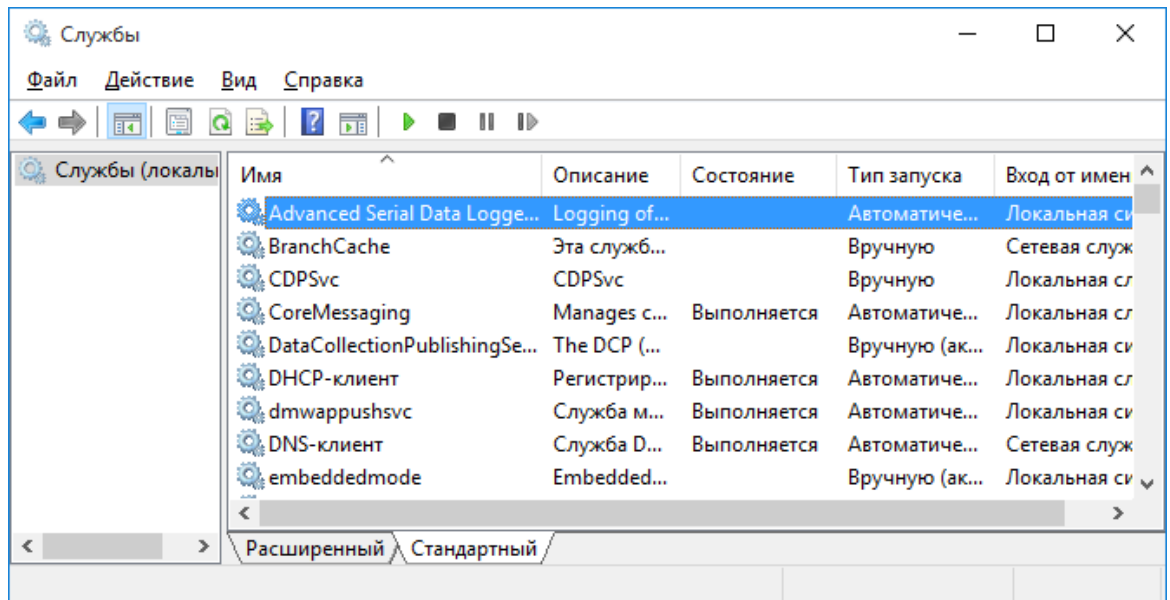
: _____ [52] Windows Vista



. 6.4.2

Advanced PBX Data Logger, " (. 6.4.1)

(. 6.4.3).



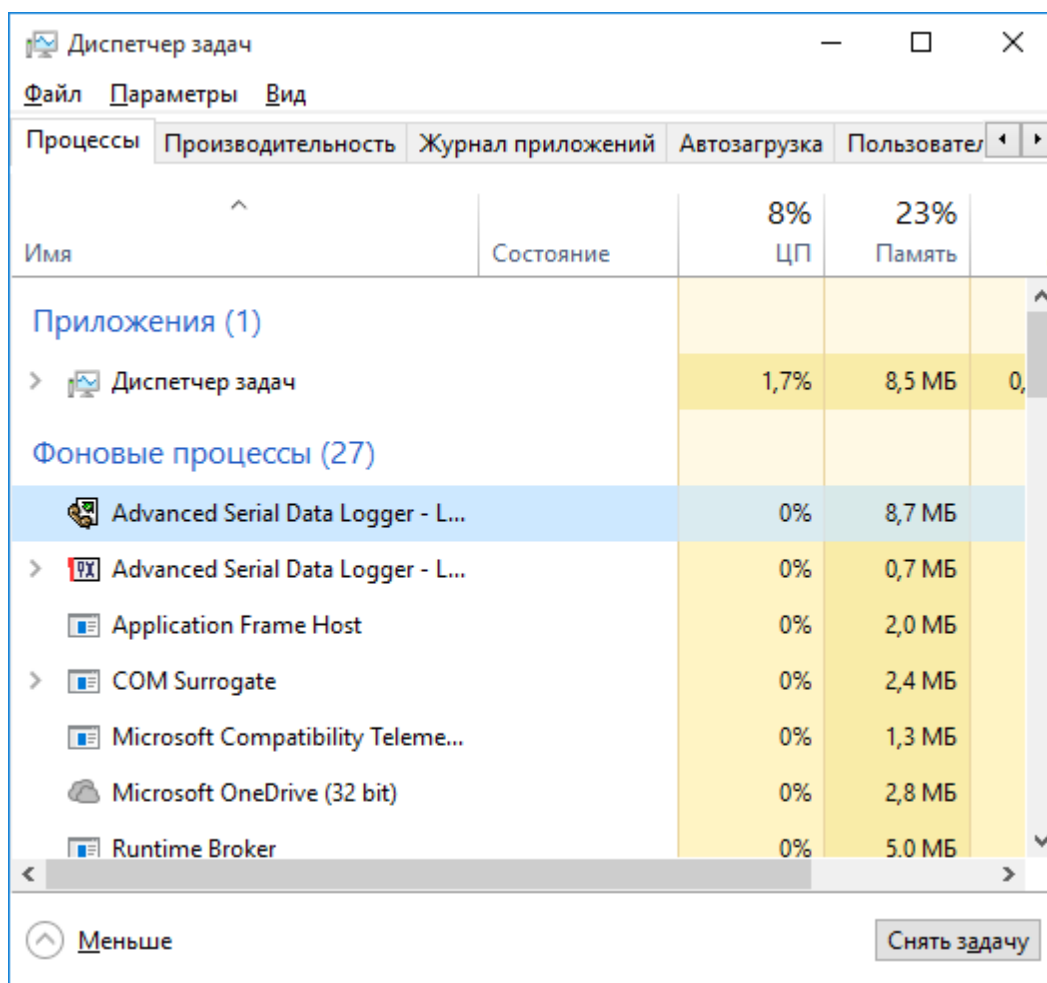
. 6.4.3.

(Windows 2000)

exe (. 6.4.4). Advanced PBX Data Logger

Advanced PBX Data Logger,

svany.exe



. 6.4.4.

pbxloggersrv.exe :

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

5.7.4.2

Windows Vista

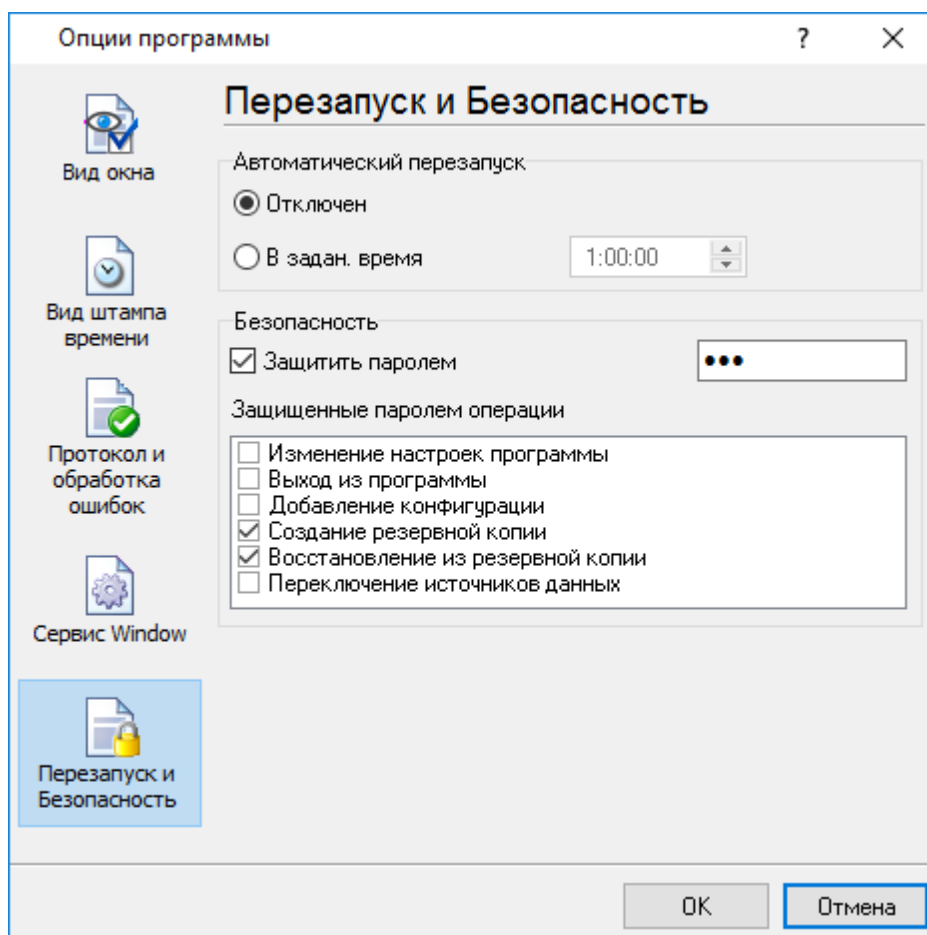
Windows Vista

Windows.

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

5.7.5

(. 6.5.1).



. 6.5.1.

" "

7

?

7.1

, . . .

SoftIce

support@aggsoft.ru