

**ПО ОПС "FireSec"
Руководство администратора.
Версия 3**

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Саратов
2008 г.

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COM	(V1)	59
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USB	-1/ -2	60
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1**1.1**

FireSec

1.

(_____ " _____").

2.

" ,
 ,
 . (_____ " _____")

1.2

Firebird SQL server.

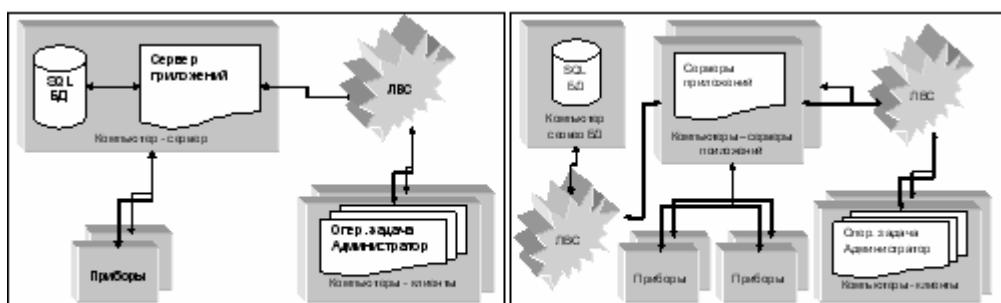
() SQL (1),
 Firebird (2).

Рис1. Стандартная архитектура системы

Рис2. Архитектура системы с выделенным сервером БД

DCOM

(-

fs_server.exe),

DCOM

(COM
 - 211).

Borland Socket Server (BSS). BSS

BSS

TCP/IP

" _____ BSS".

TCP/IP

(

211).

- " _____ "(fs_cl_oper.exe) - ;
- " _____ "(fs_cl_admin.exe) -

1.3

: Windows 2000, XP, Vista.
TCP/IP.

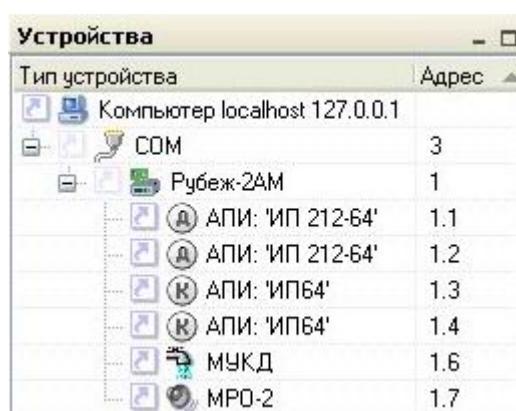
- Windows XP SP2.

- NTFS,

FAT

800, 128
M- USB-

1.4



"COM- "

CC

2

(,),

(

, , " "

• (. .)

" "

USB

-1

-1,

,

SQL

SQL

Firesec

1

FireSec

- () : adm -
- , : inst -
- " : oper -
- () : operl -

" " "

2

2.1

1. FireSec
FireSec - rubezh_firesec_X.exe, X
 2. ,
2.1. Program Files\FireSec.
2.2.

Установка клиента и сервера

2.3. - FireSec.
2.4. - Windows

FireSec. (Windows).

2.5. , " . "

1

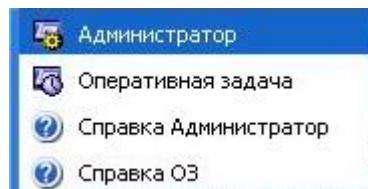
- ```

 graph LR
 FS[FireSec] --- BSS[Borland Socket Server]
 FS --- COM[COM-]
 BSS --- FIFO(())
 FIFO --- RXFIFO[Rx FIFO]
 FIFO --- TXFIFO[Tx FIFO]
 COM --- RXFIFO
 COM --- TXFIFO

```

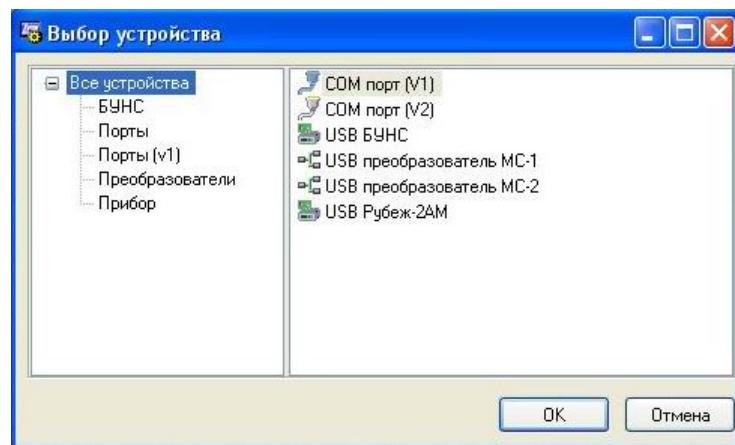
The diagram illustrates the internal structure of a FireSec interface. It consists of two main components: Borland Socket Server (BSS) and COM-. The BSS component is connected to a FIFO buffer, which in turn connects to both Rx FIFO and Tx FIFO. The COM- component is also connected to both Rx FIFO and Tx FIFO.

2.2



2.3

```
" , , ")
"
" , " , " , "
USB -1/ -2, 2 -01 COM-
USB
```



-3, -4:  
 • - (V1) -2 -10 ;  
 • - (V2) -2 , -01, -3 -4.  
 -1, -2 -1 -2  
 -01 RS-485.

| Тип устройства                | Ад... | Зона |
|-------------------------------|-------|------|
| Компьютер localhost 127.0.0.1 |       |      |
| MC-2                          |       |      |
| Канал                         | 1     |      |
| Рубеж-2АМ                     | 1     |      |
| Канал                         | 2     |      |
| БУНС                          | 1     |      |
| COM                           | 3     |      |
| Рубеж-2АМ                     | 1     |      |
| АПИ: 'ИП 212-64'              | 1.1   |      |
| АПИ: 'ИП 212-64'              | 1.2   |      |
| MPO-2                         | 1.3   |      |
| Модуль пожаротуш...           | 1.4   |      |
| USB Рубеж-2АМ                 | USB 4 |      |
| АПИ: 'ИП64'                   | 1.1   |      |
| АПИ: 'ИП64'                   | 1.2   |      |
| РПИ                           | 1.3   |      |
| МУКД                          | 1.4   |      |

, , , , , , , -01,  
 , , , , , , , )  
 ( , , , , , , . ).  
 , , , , , , . ).

-01,

" , Firesec

## 2.4

" " " "

•  
•

## 2.5

" " "

•  
•  
•

" " "

" "

—

2.6

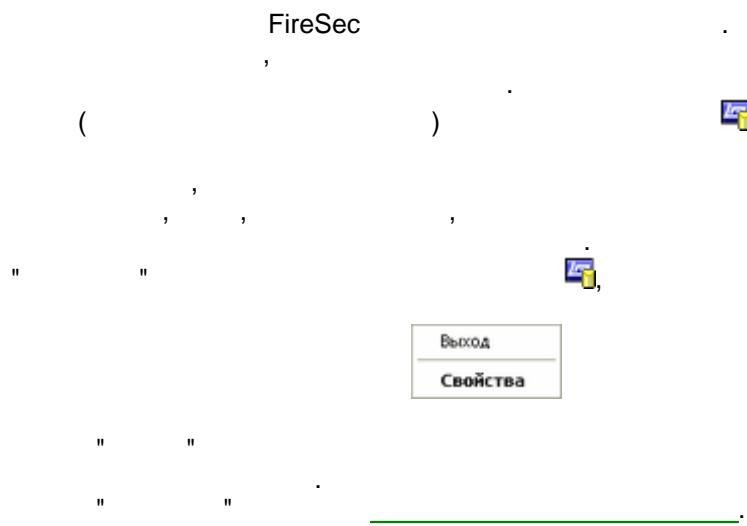
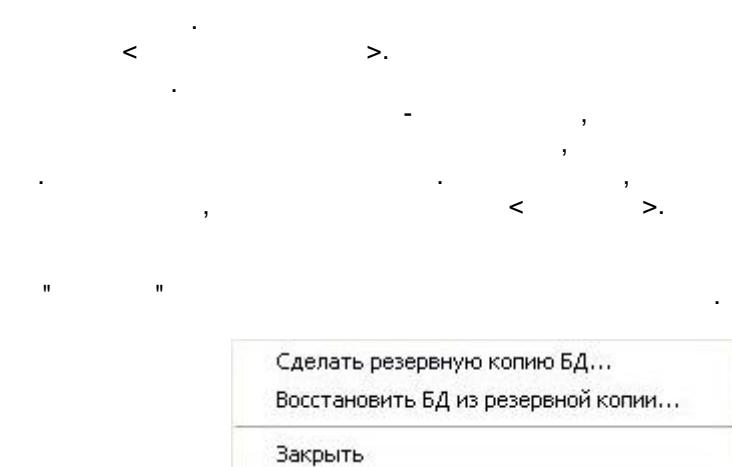
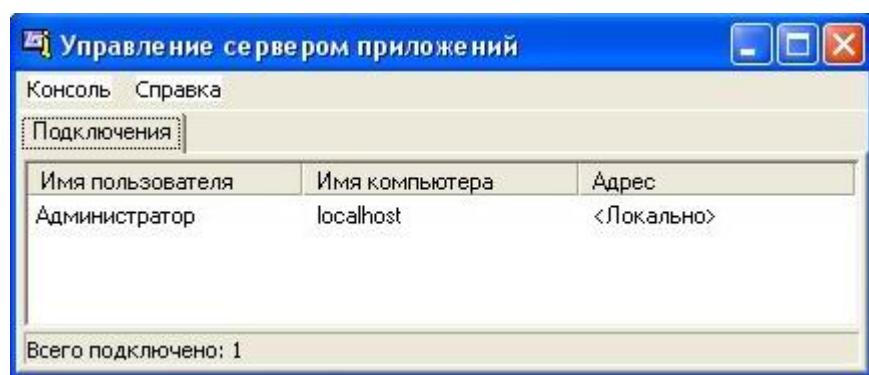
2.7

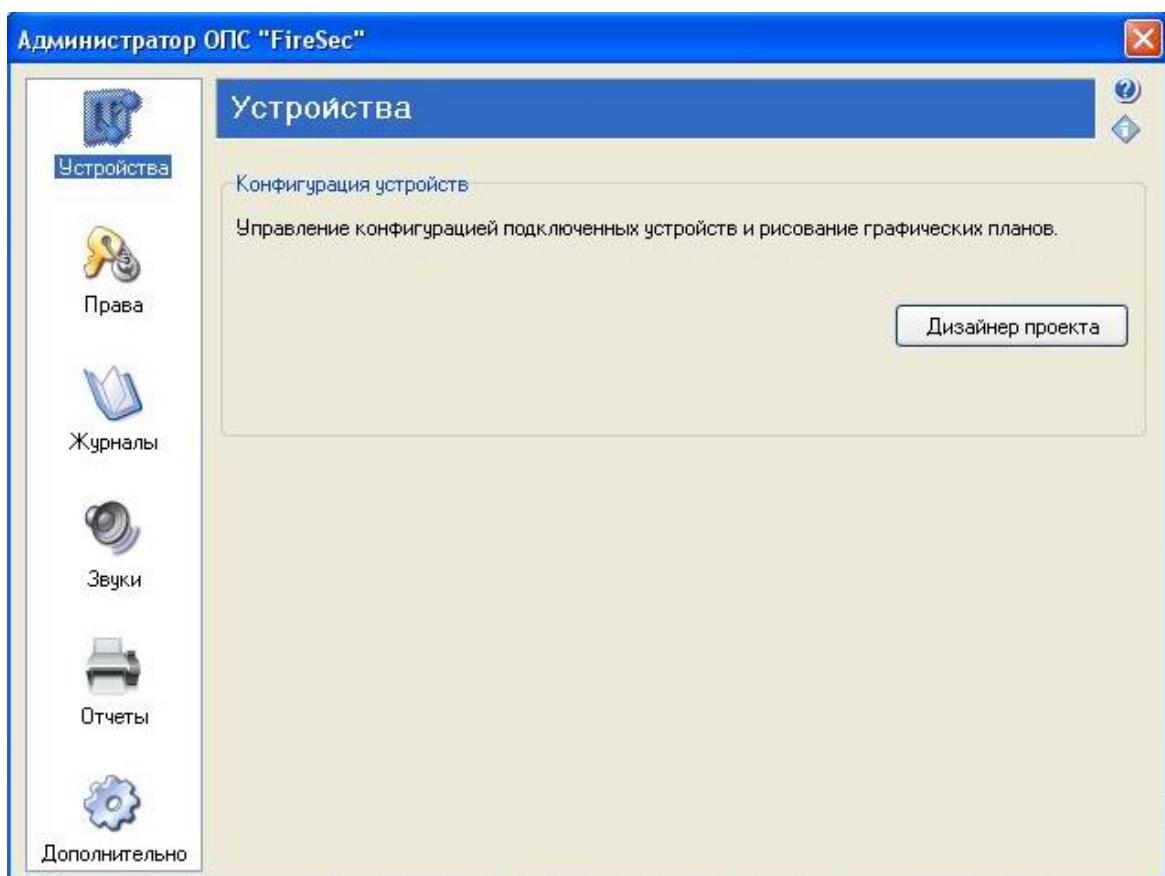
## 2.7.1

(FireSec Borland Socket Server). TCP/IP

- ```
• " _____ , ");  
• " " );  
• " FS_CLIENT.INI ");  
• " " ) . ( .
```

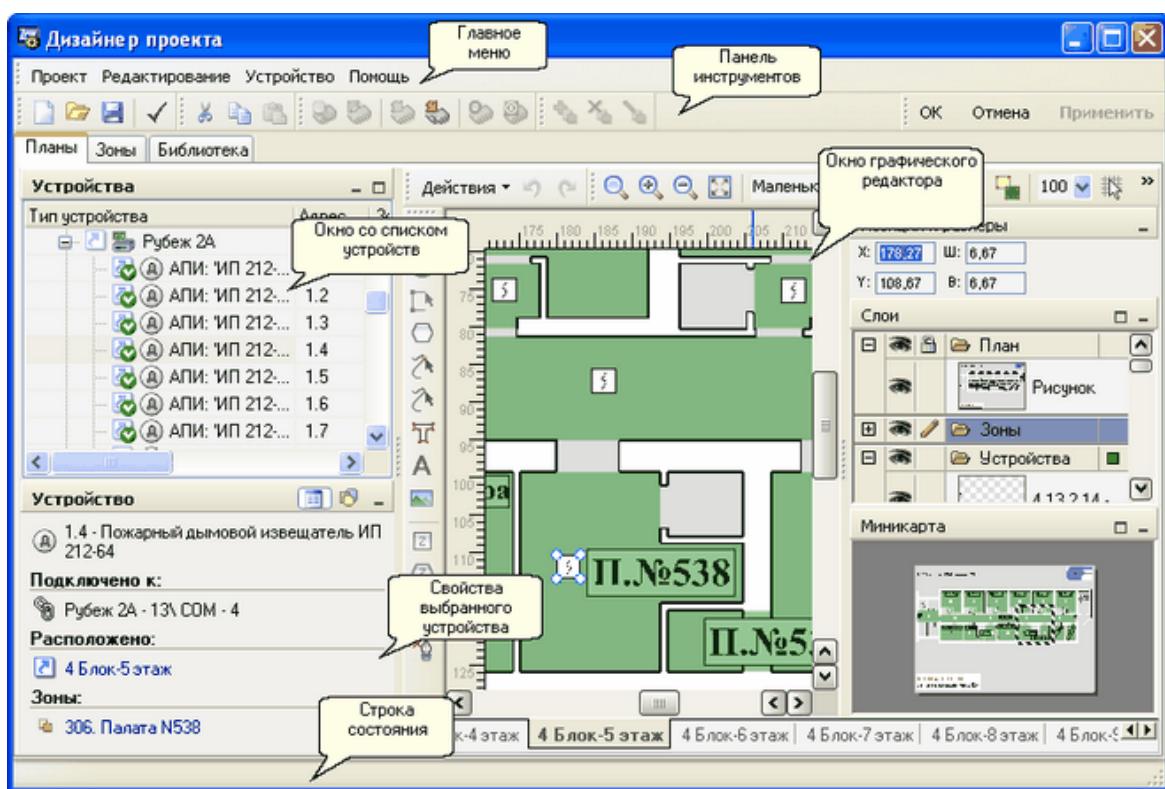
2.7.2

3**3.1****3.2**

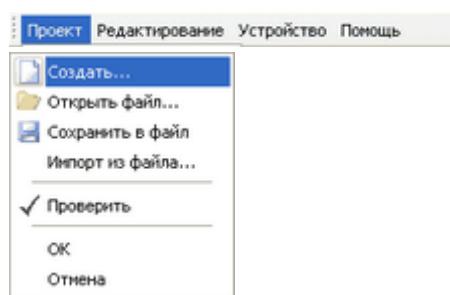
4**4.1**

4.2

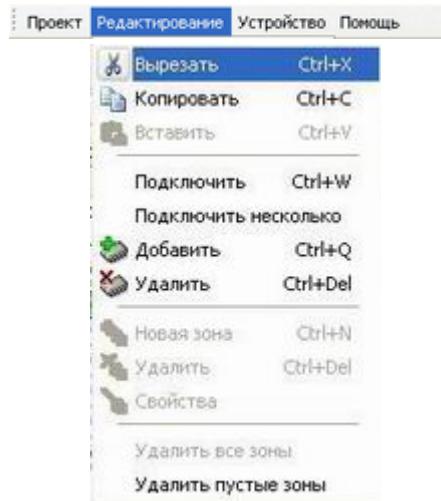
4.2.1



4.2.2



"fsc",



(*Ctrl+X*).



(*Ctrl+C*).



(*Ctrl+V*).

(*Ctrl+W*).



(*Ctrl+Q*).

(,)



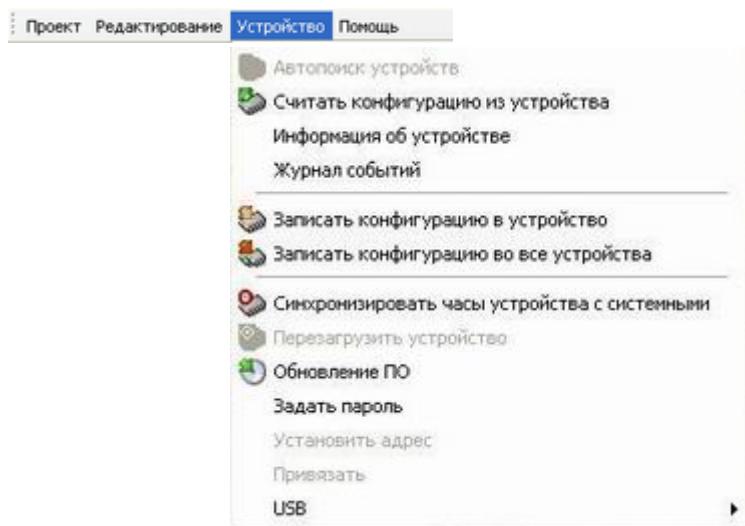
(*Ctrl+Del*).



(*Ctrl+N*).

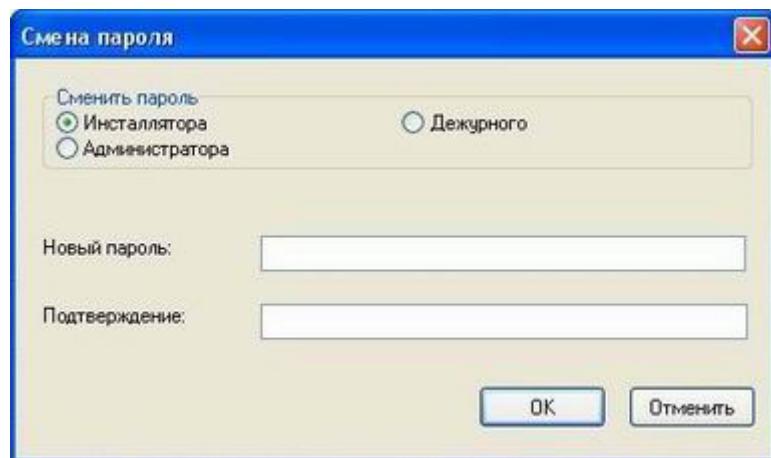


(*Ctrl+Del*).





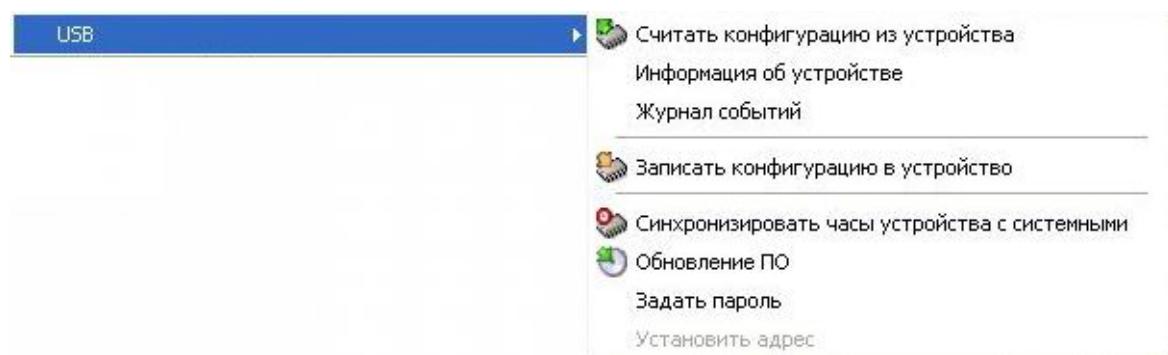
2 " -01
2 " -10 "-



-2
FireSec

USB.

USB-



-1 -2,

USB,

4.2.3



...



...



...



...



...



(*Ctrl+X*).



(*Ctrl+C*).



(*Ctrl+V*).



" " "



" " "



" " "



" " "



" " "



" " "

" " "

" " "

" " "

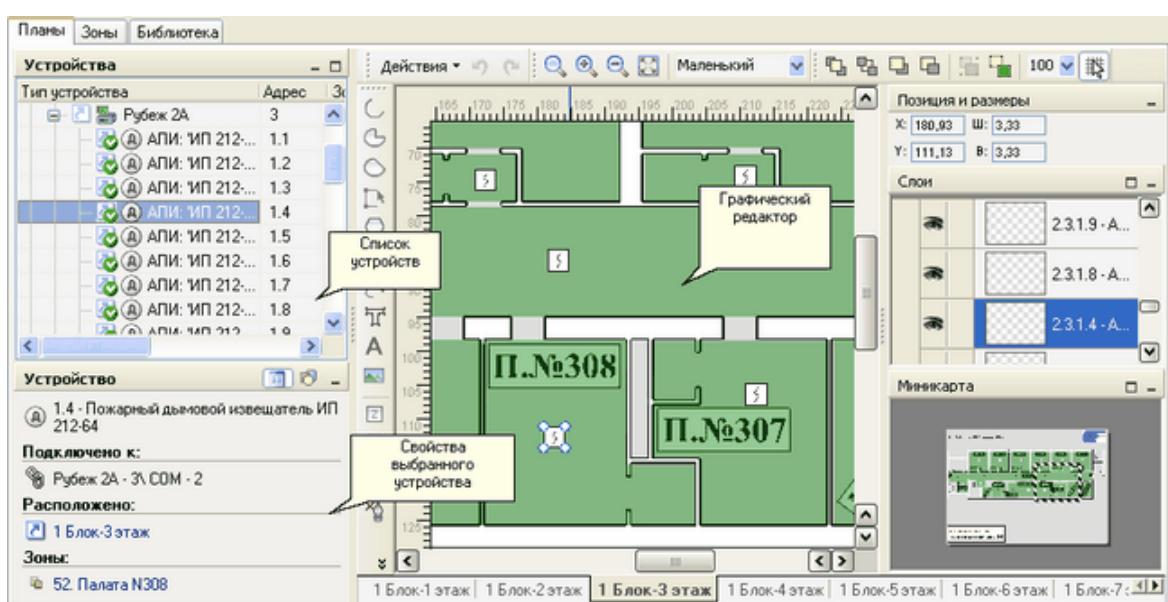
4.2.4

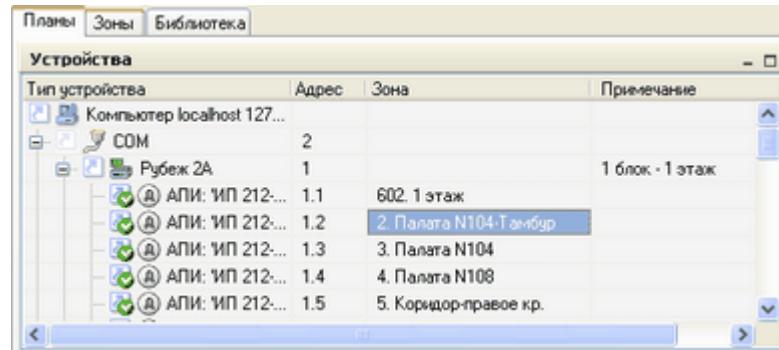
4.2.4.1

1.

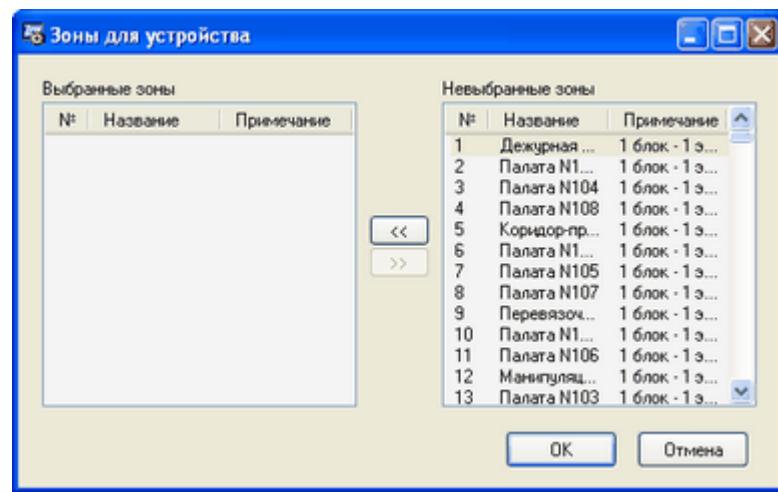
2.

3.



4.2.4.2

"<<" ">>". "<<"
">>"



-1,

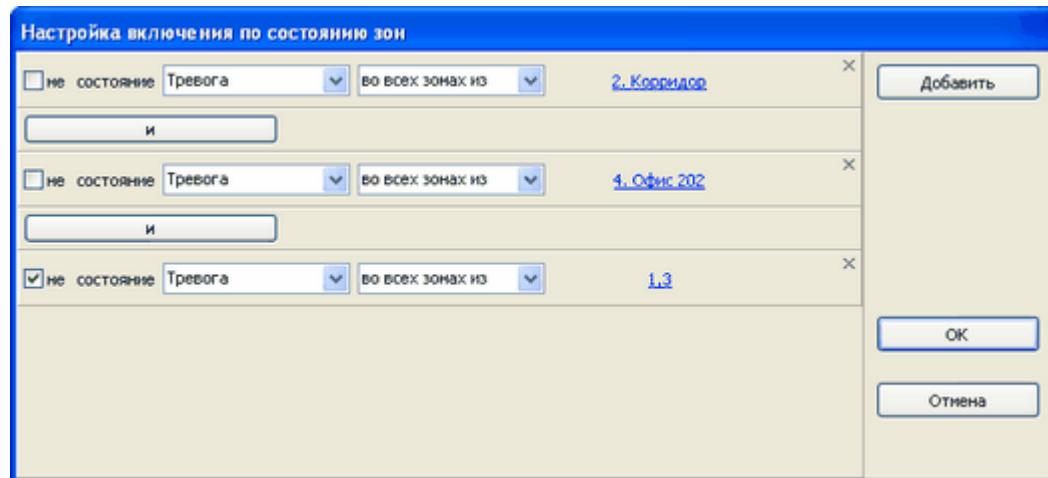
-2

-01,

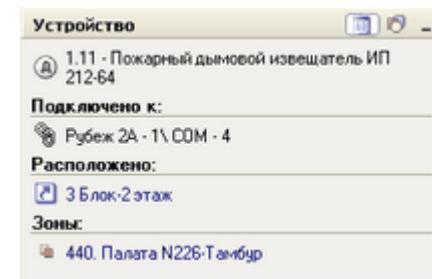
-1

-1.

-1

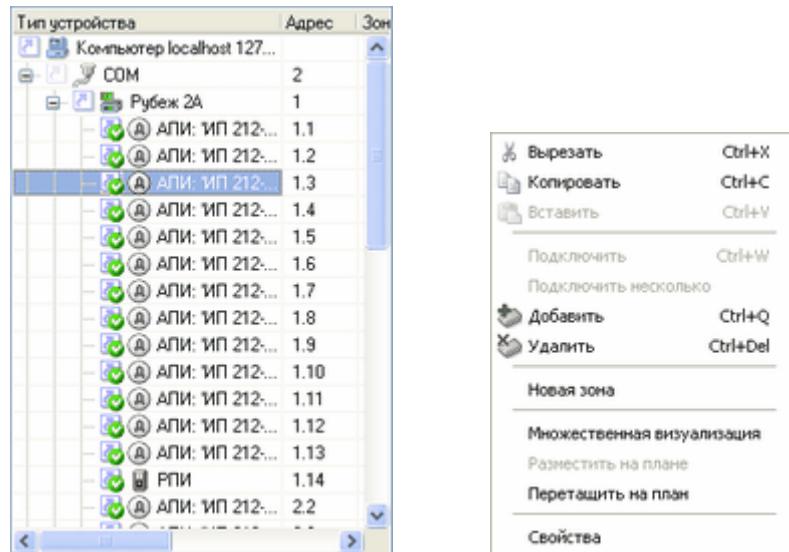


4.2.4.3



- Icons;
- Windows ICO.
True Color (16
16x16,
) ;

4.2.4.4



(*Ctrl+X*).



(*Ctrl+C*).



(*Ctrl+V*).

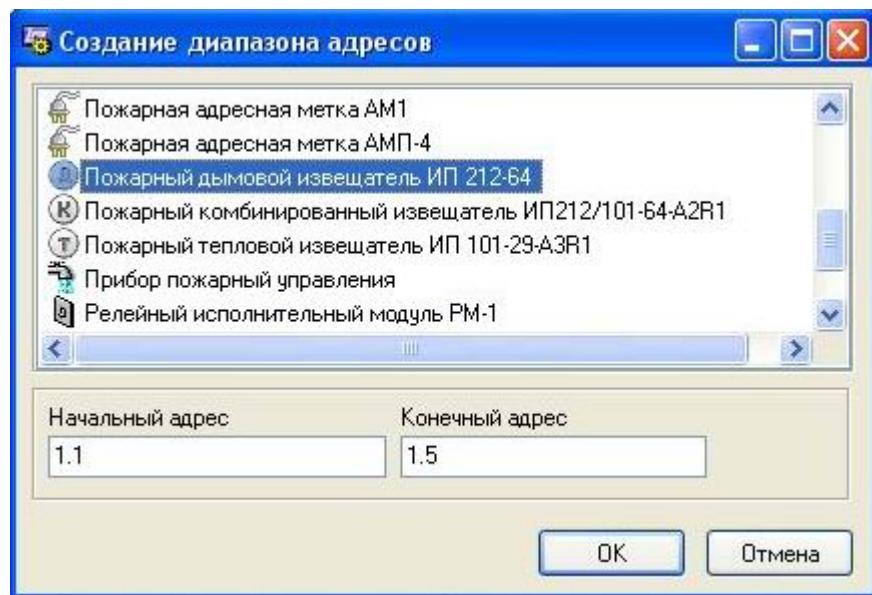
(*Ctrl+W*).



(*Ctrl+Q*).

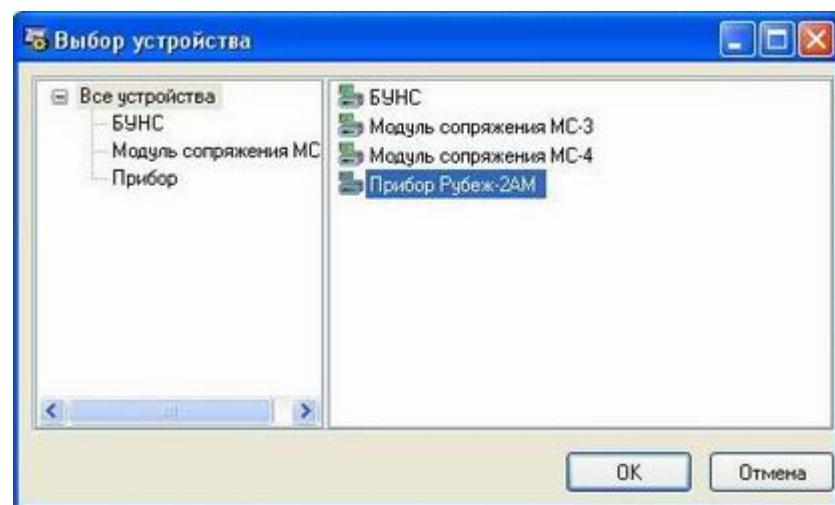
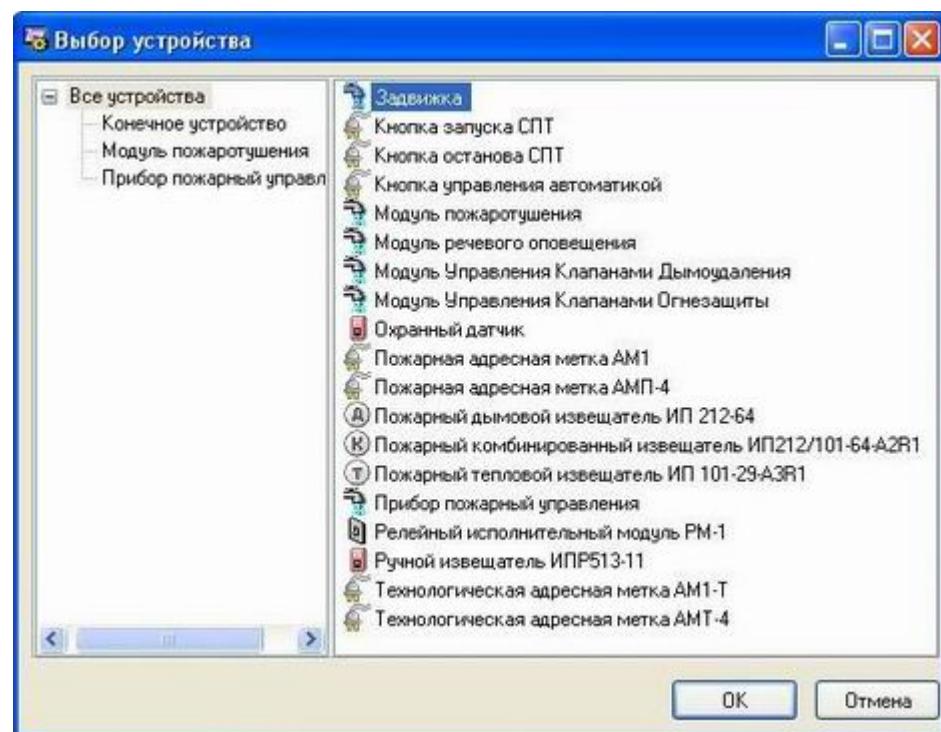


(*Ctrl+Del*).

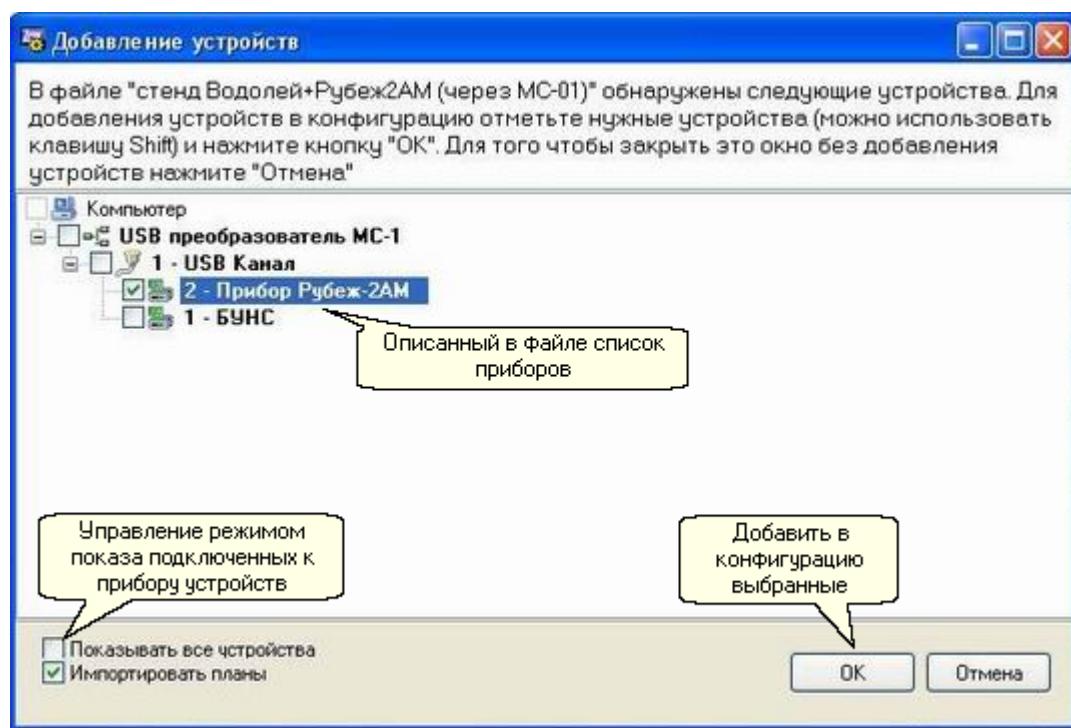


4.2.4.5

(" " " ")



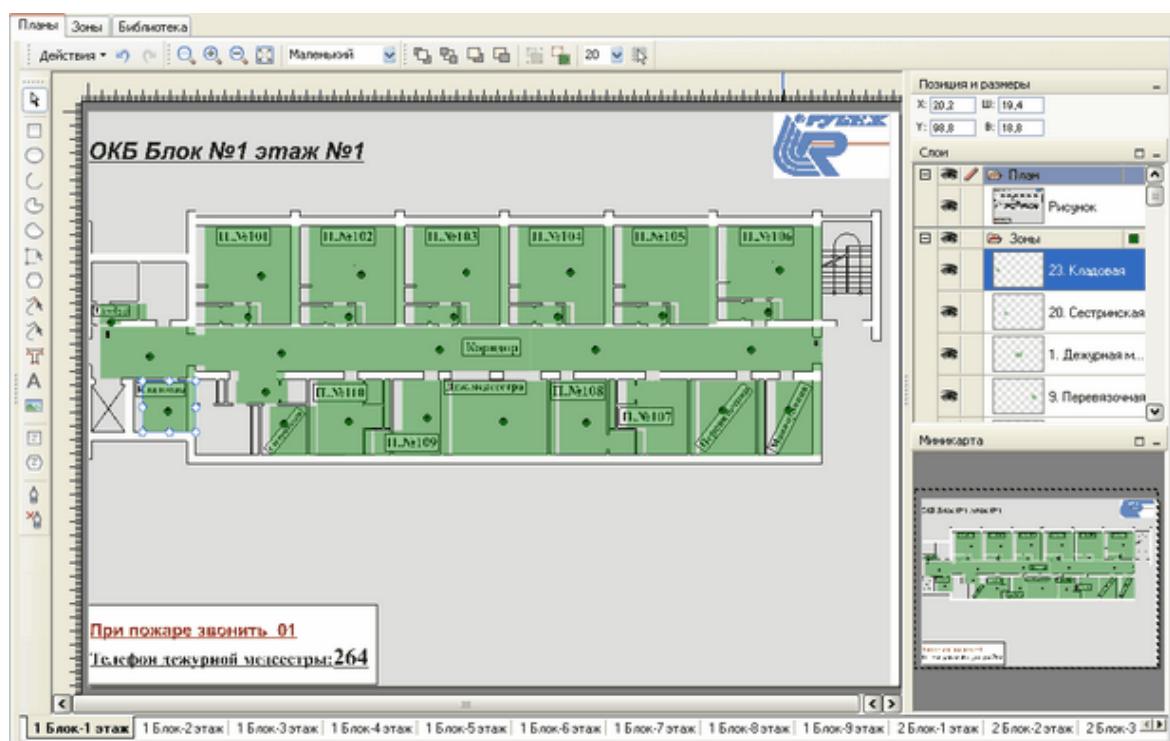
4.2.4.6



4.2.5

4.2.5.1

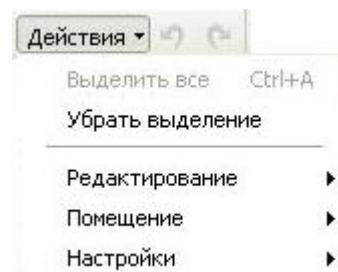
(BMP, JPG, ICO).



•
 •
 • " ;
 • " ;
 • " (" ");
 •

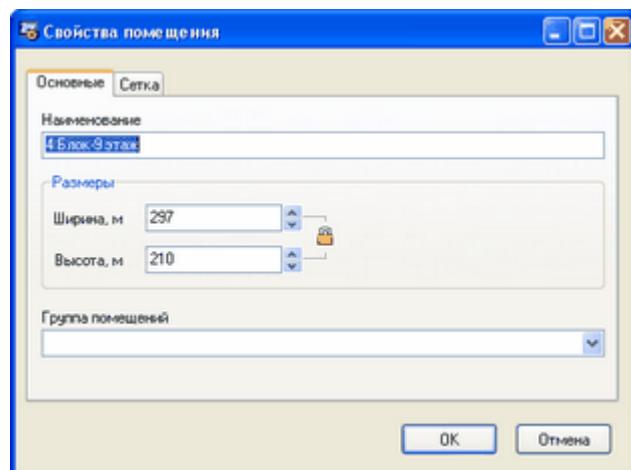
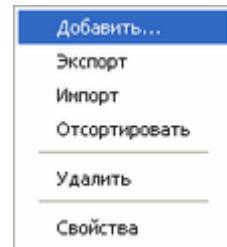
4.2.5.2

• ;
 • ;
 • ;
 •

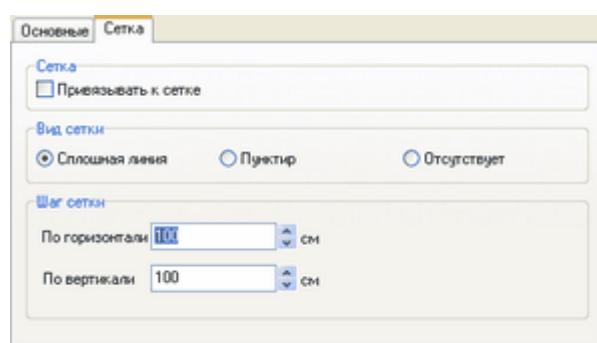


(*Ctrl+A*).

(*Del*).



() , ,



" " XML (.fsa)

- Firesec (.fsa);
- AutoCad (.dxf).



(10, 25, 50, 100,

200, 400, 800, 1600, 3200, 6400, 10000, 20000, 40000);



Маленький





50



Инструменты



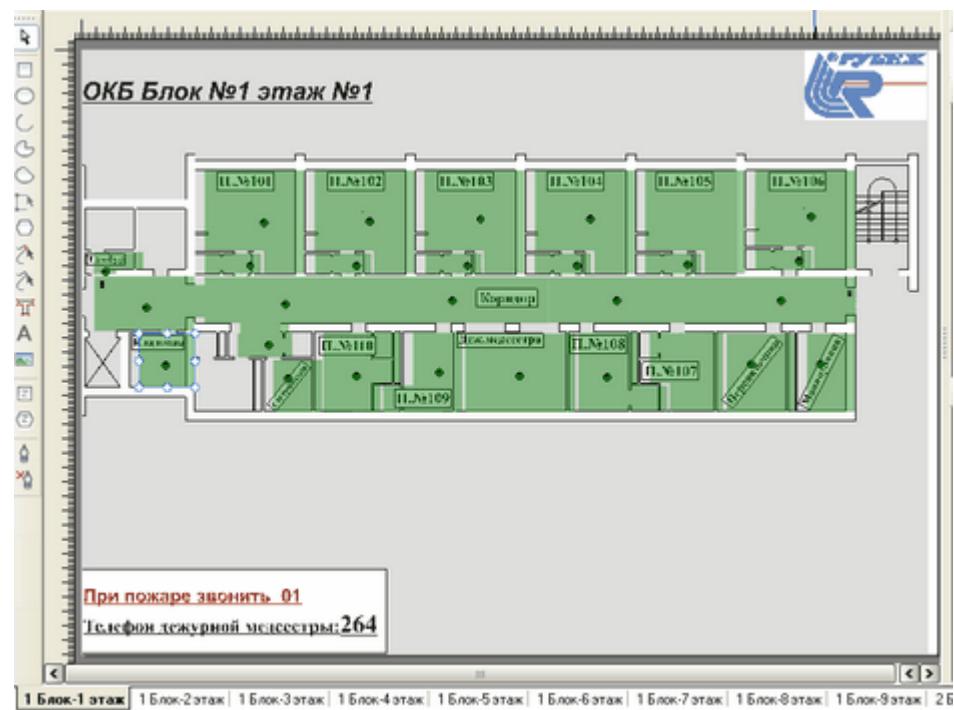
()



(),

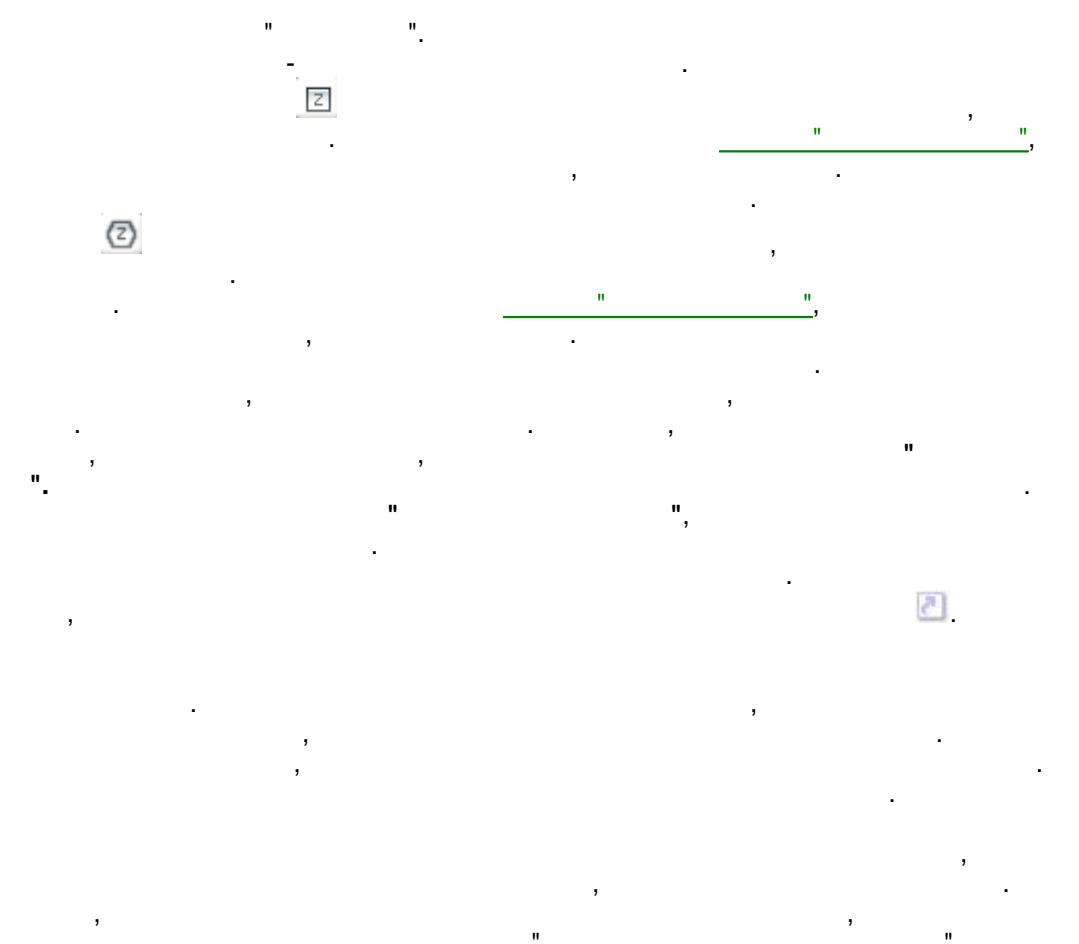


4.2.5.3

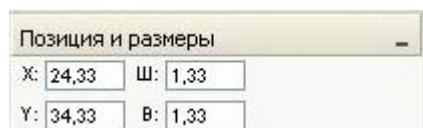


(

),



4.2.5.4



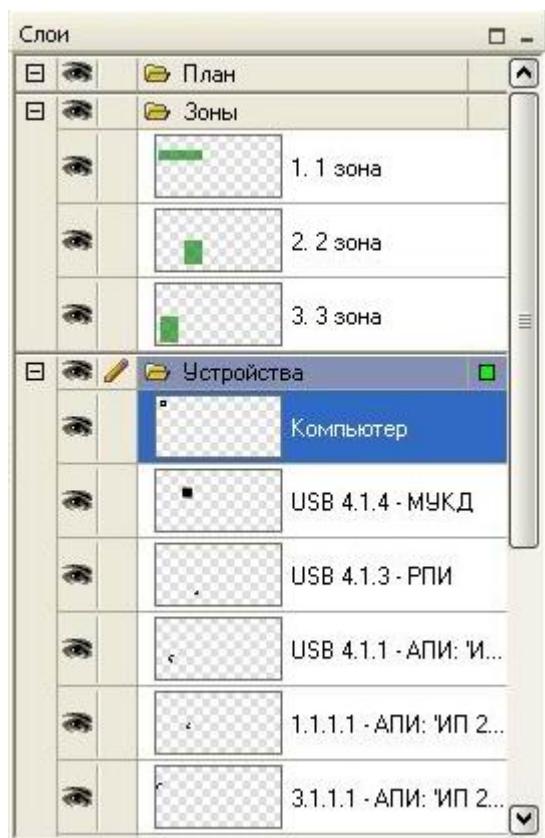
(,).

- X:
- Y:

: X - 0, Y - 0.

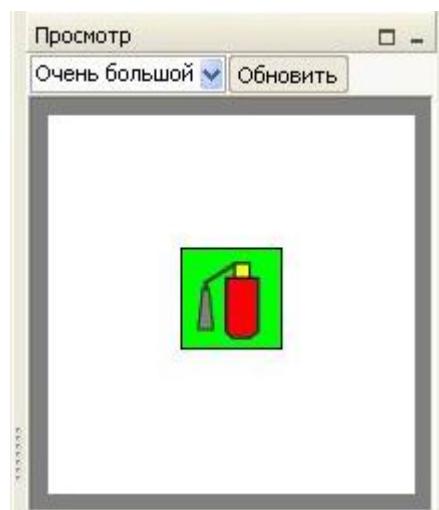
4.2.5.5





4.2.5.6

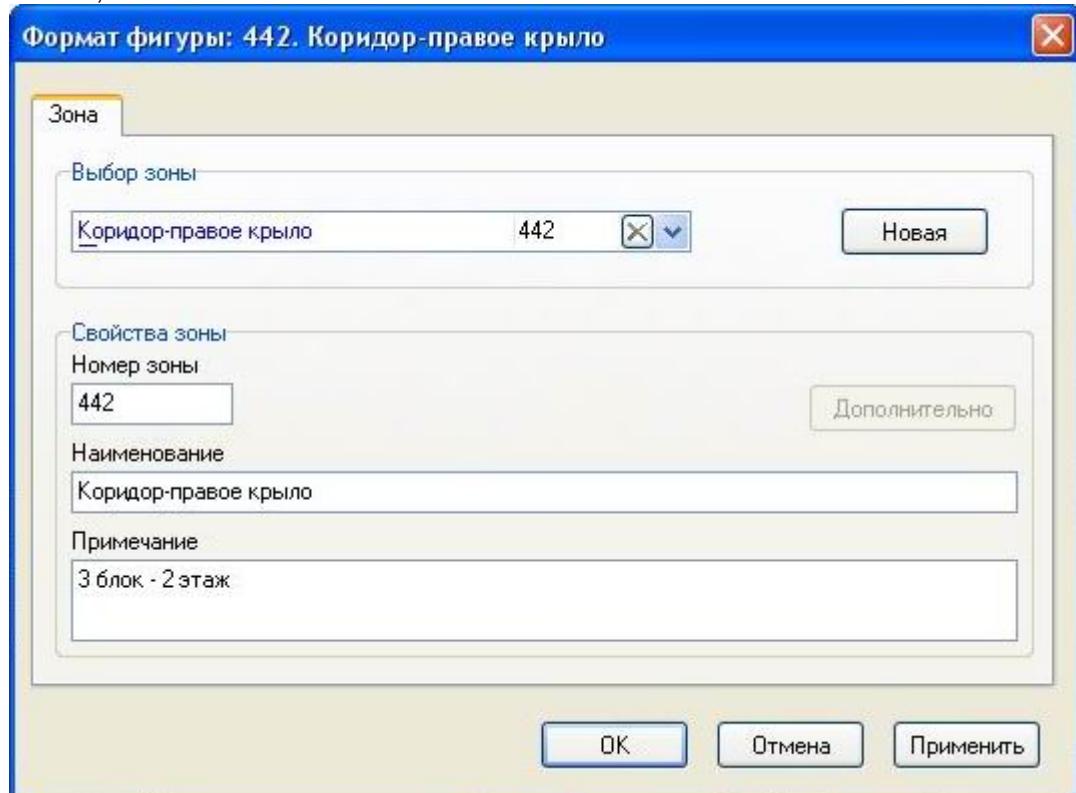
" " "

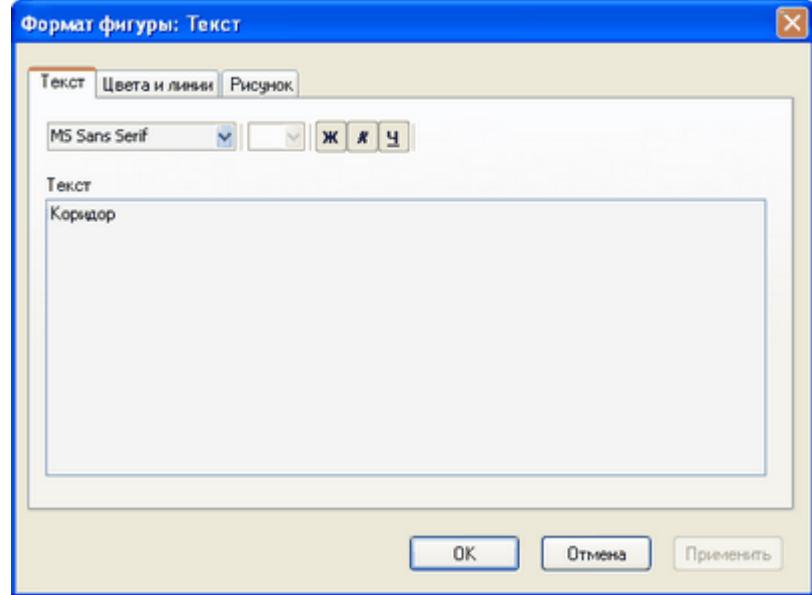
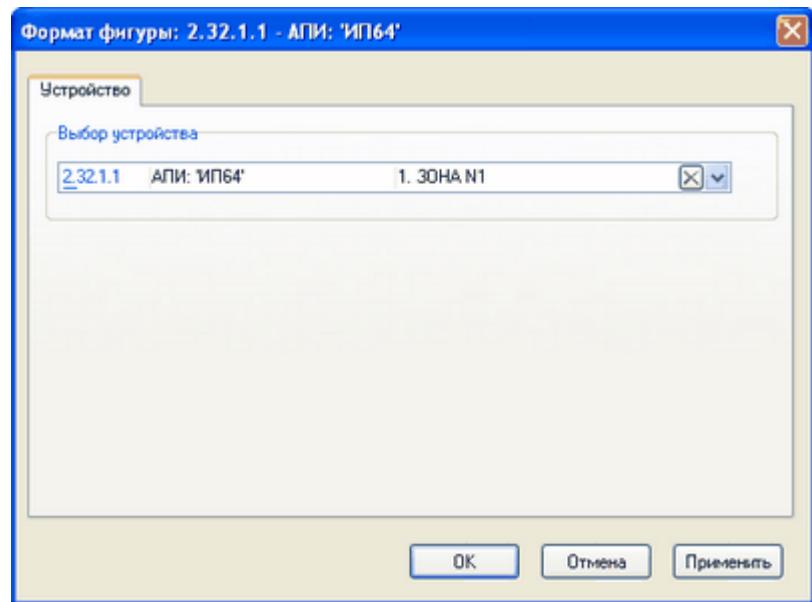
4.2.5.7

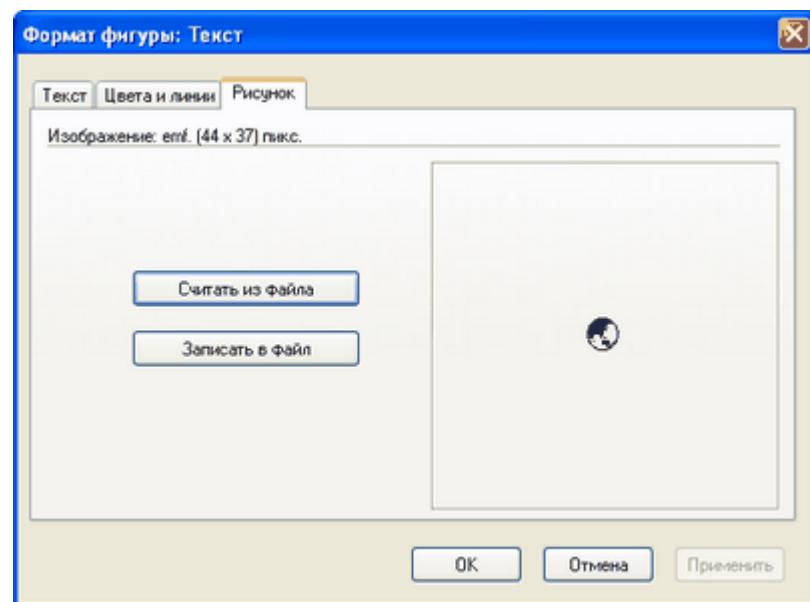
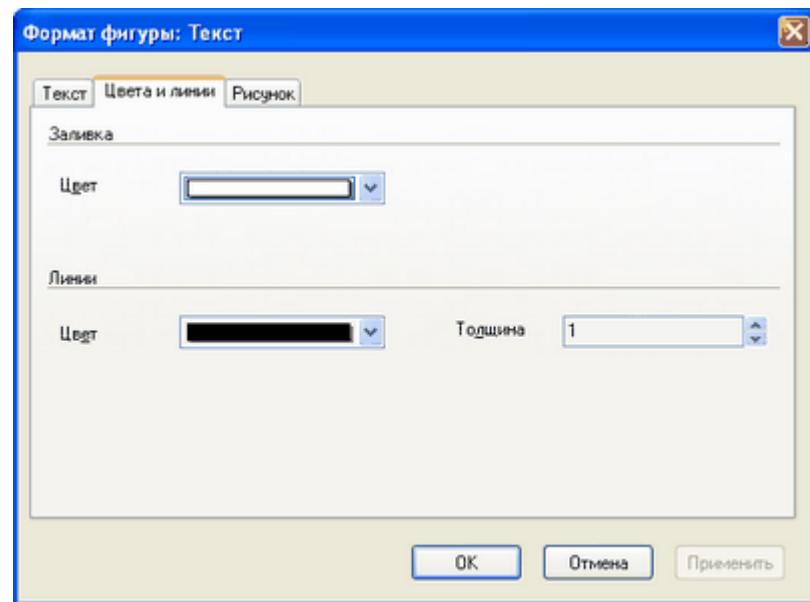
" " "

4.2.5.8

- ; ,
- ; ,

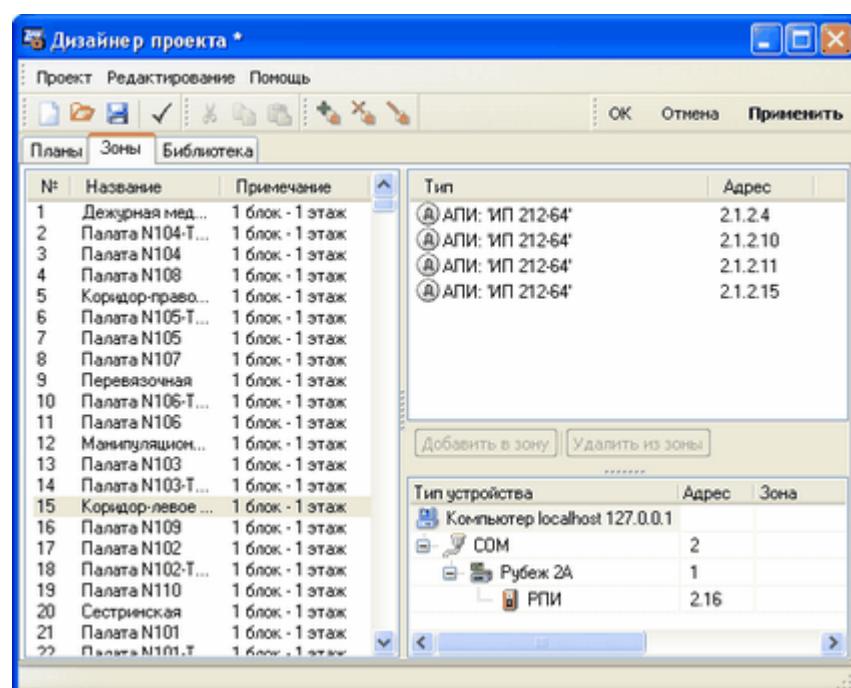
4.2.5.9

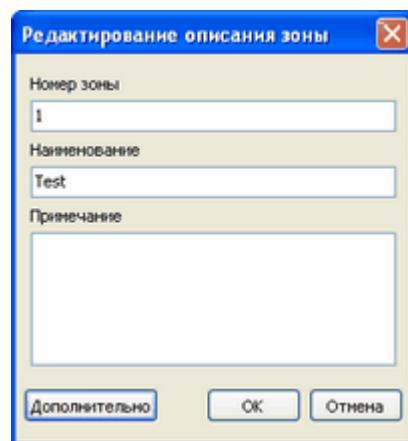




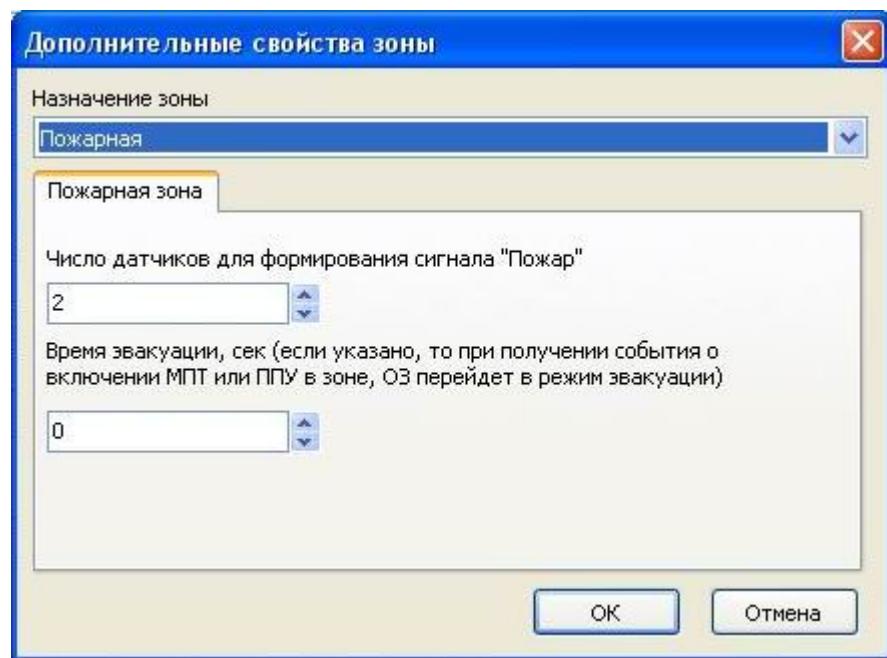
4.2.6

4.2.6.1



4.2.6.2

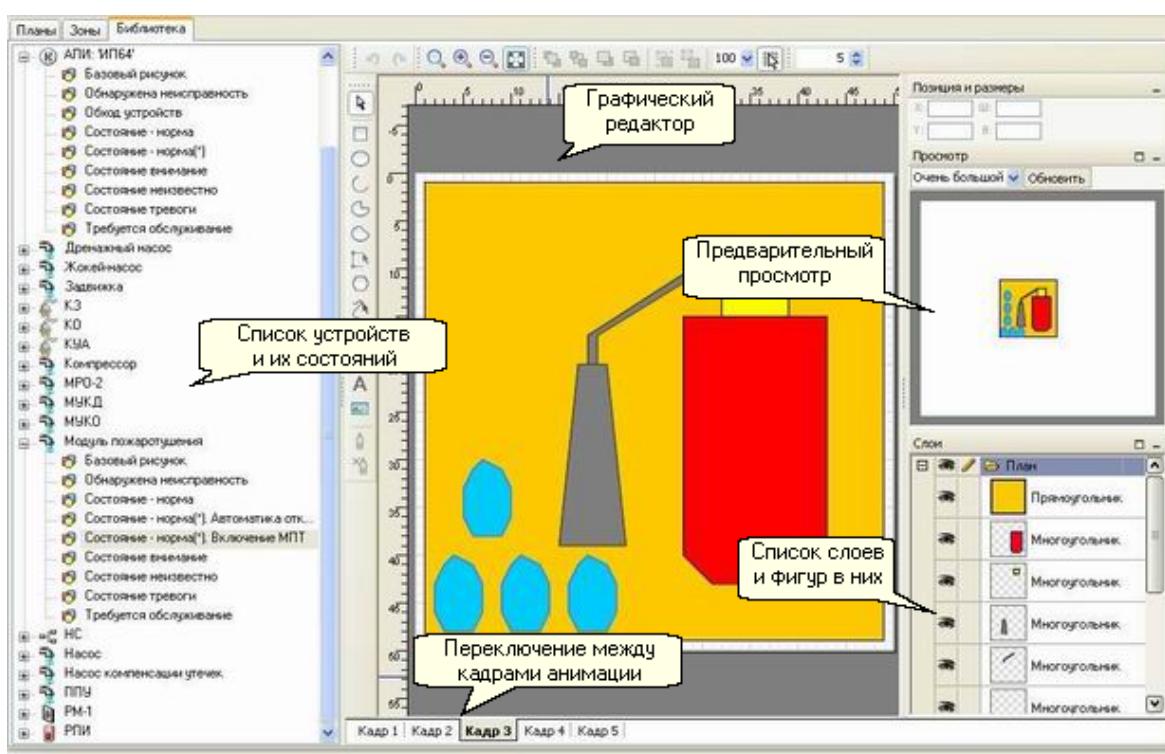
20-



4.2.7

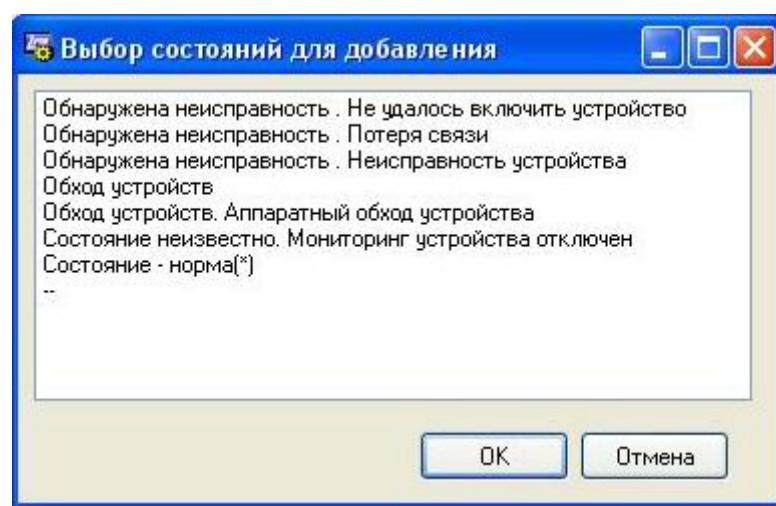
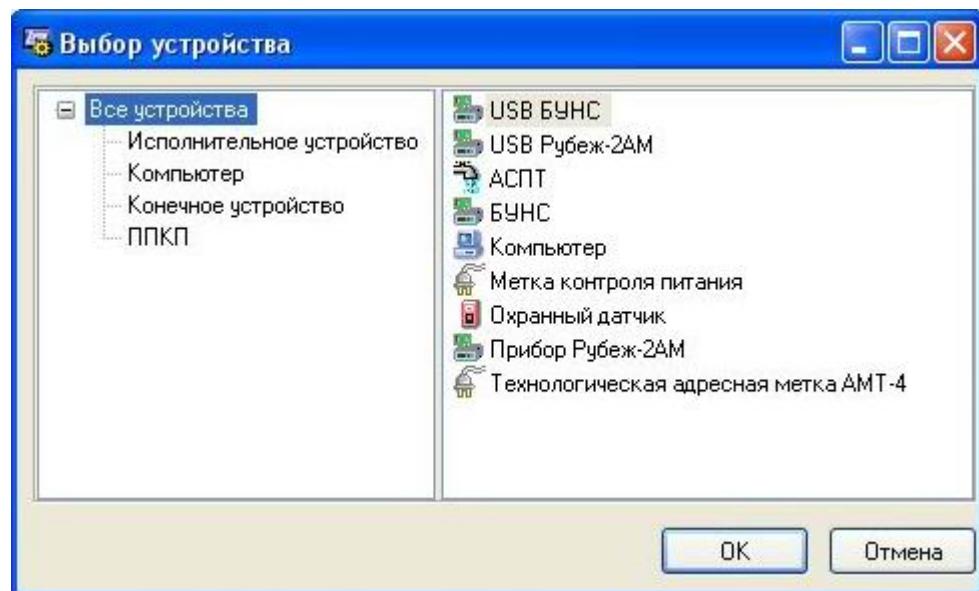
4.2.7.1

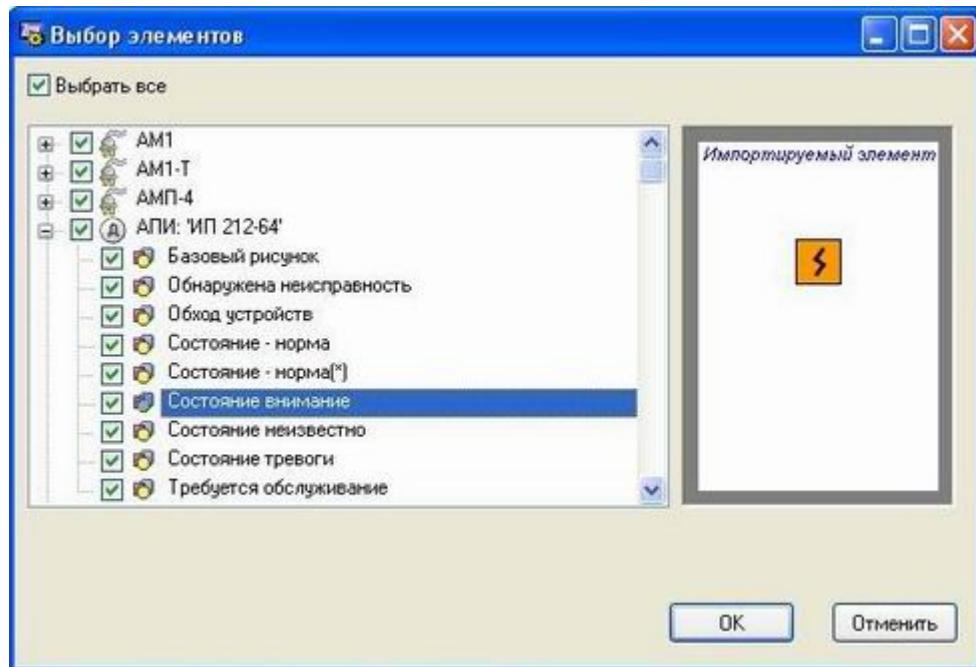
FireSec.



Новое устройство
Добавить состояние

Удалить



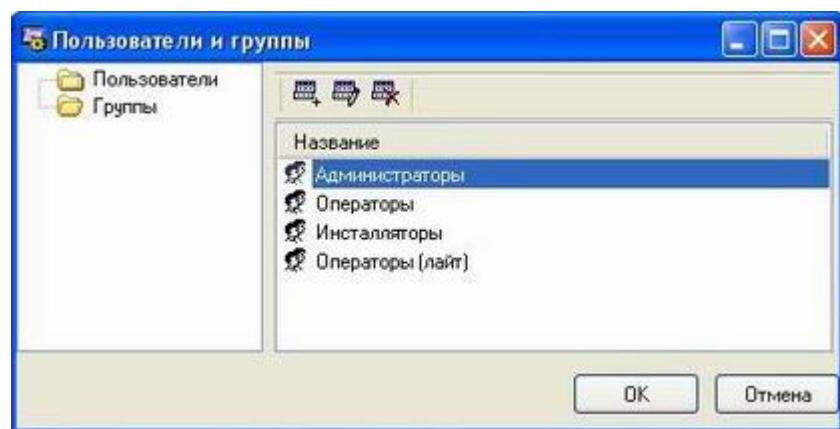
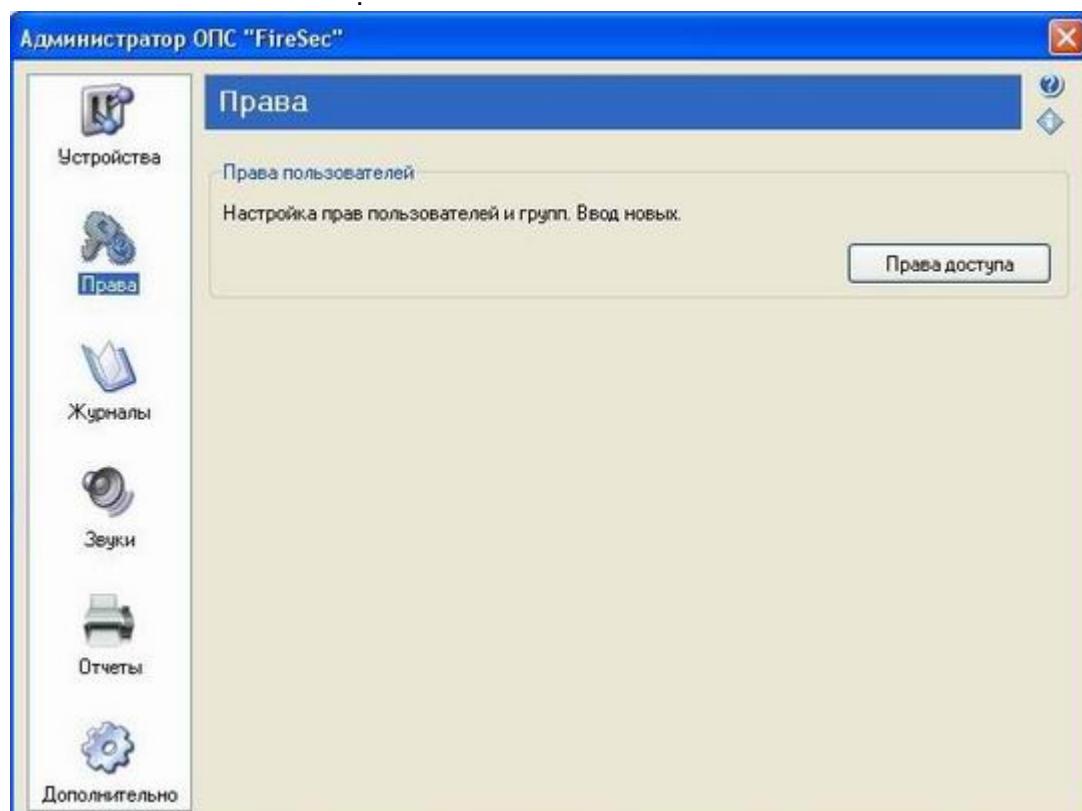
4.2.7.2**4.2.7.3**

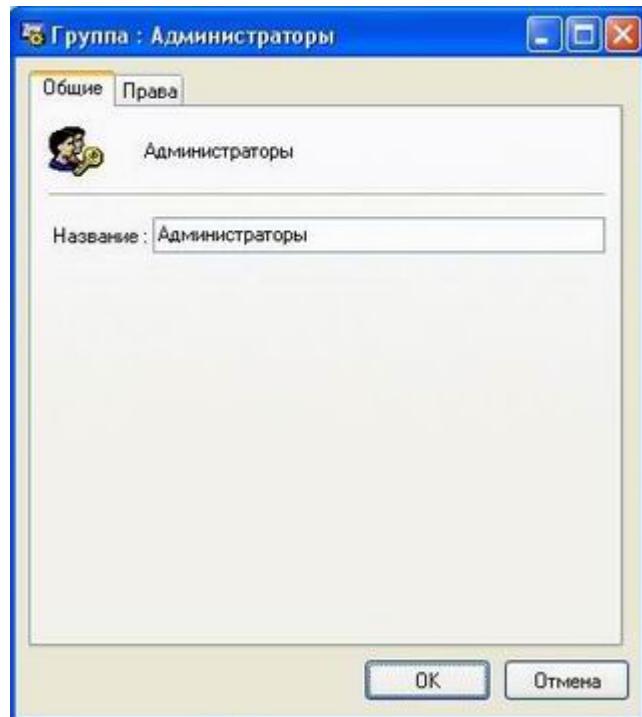
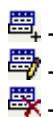
FLB.

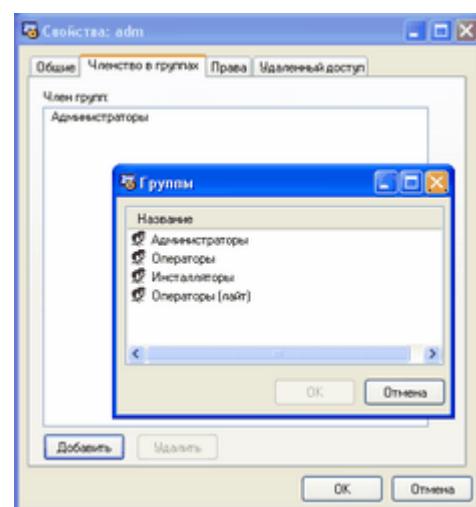
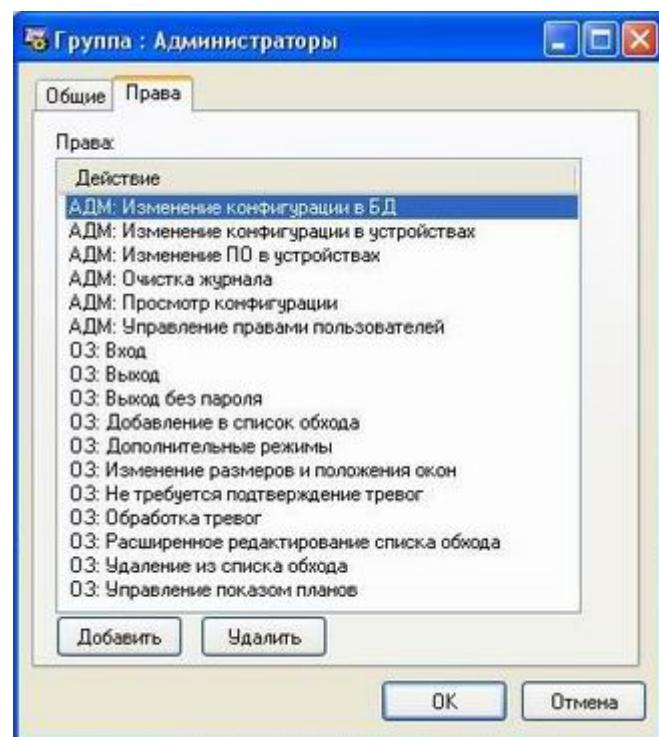
4.3

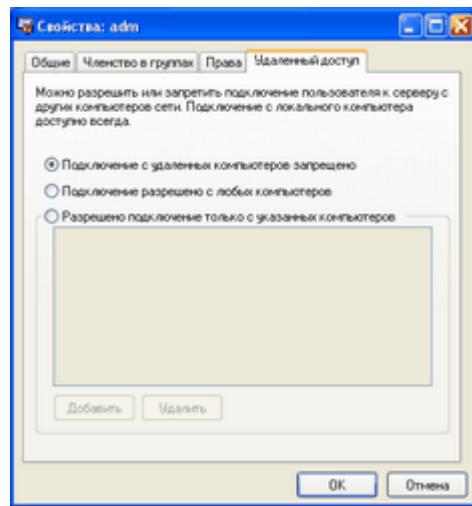
4.4

4.4.1

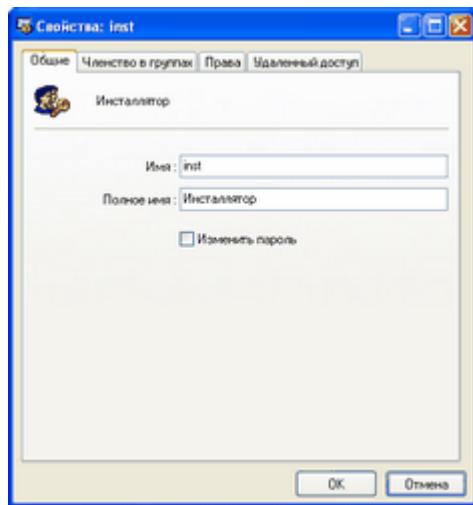


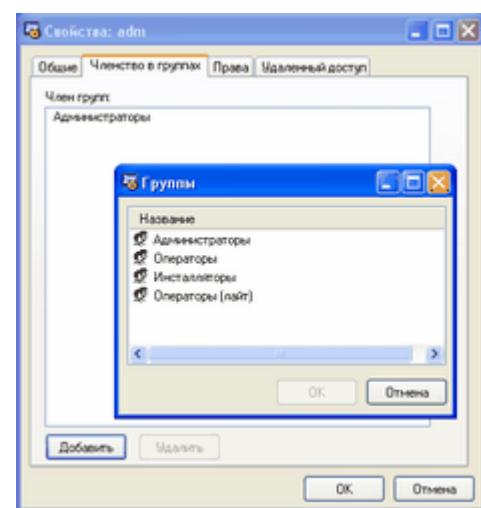
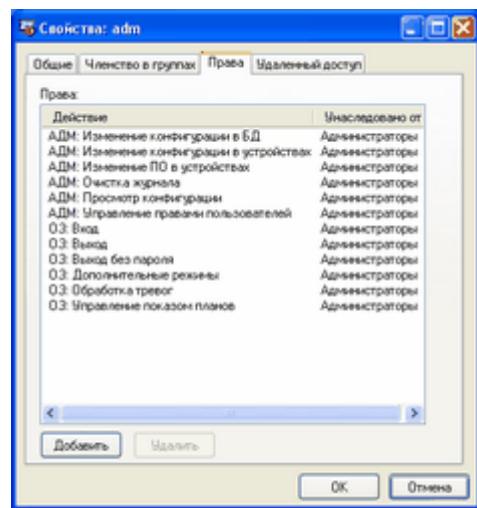


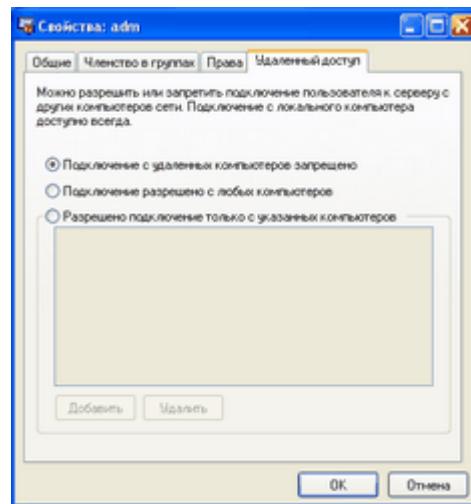




4.4.2







4.5

Администратор ОПС "FireSec"

Журналы

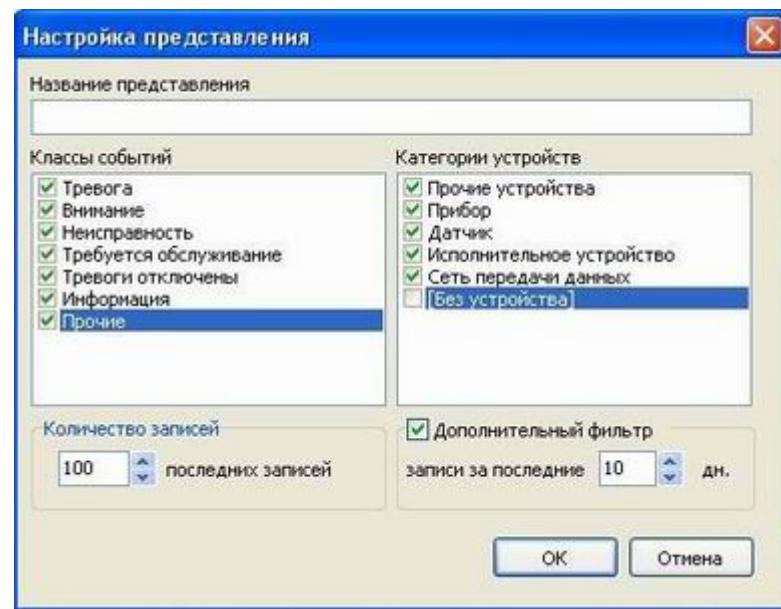
Для удобства, в оперативной задаче, предусмотрена возможность раздельного представления событий разного типа. Список приведенный ниже отображается в виде отдельных закладок в окне журнала оперативной задачи.

Представления журнала:

Название	Условие	Кнопки
Журнал Тревога	Тип события: Тревога. Тип устройства	Создать
Журнал Внимание/Неисправность	Тип события: Внимание или Неисправность	Изменить

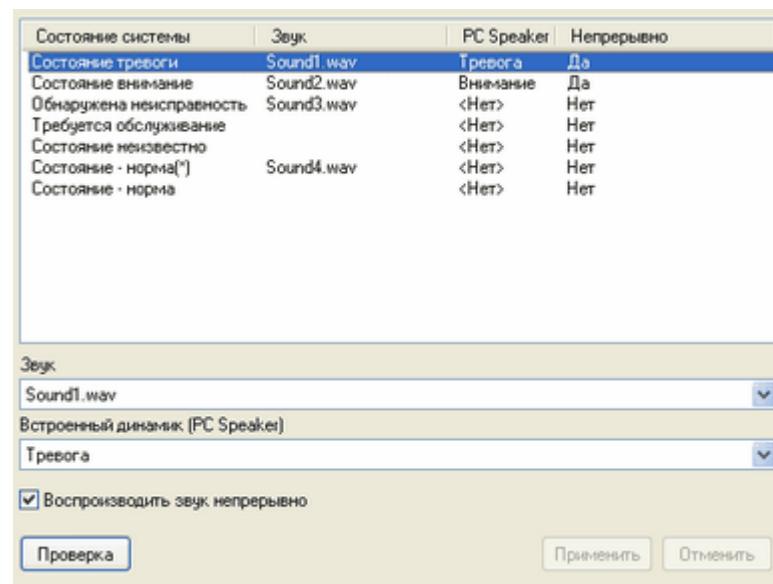
Кнопки: Создать, Изменить, Удалить, Применить, Отменить.

Левая панель меню: Устройства, Права, Журналы (выделено), Звуки, Отчеты, Дополнительно.



4.6

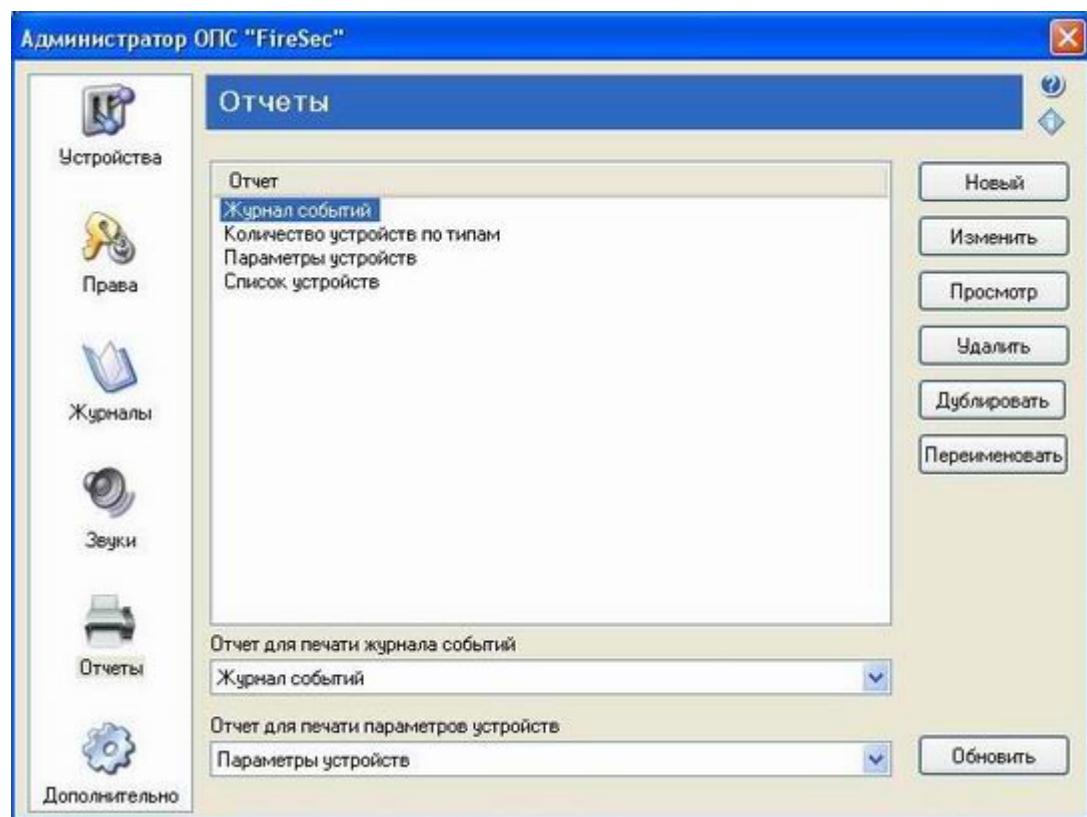
(PC Speaker),



Sounds;
- Windows WAV;

4.7

Reports.

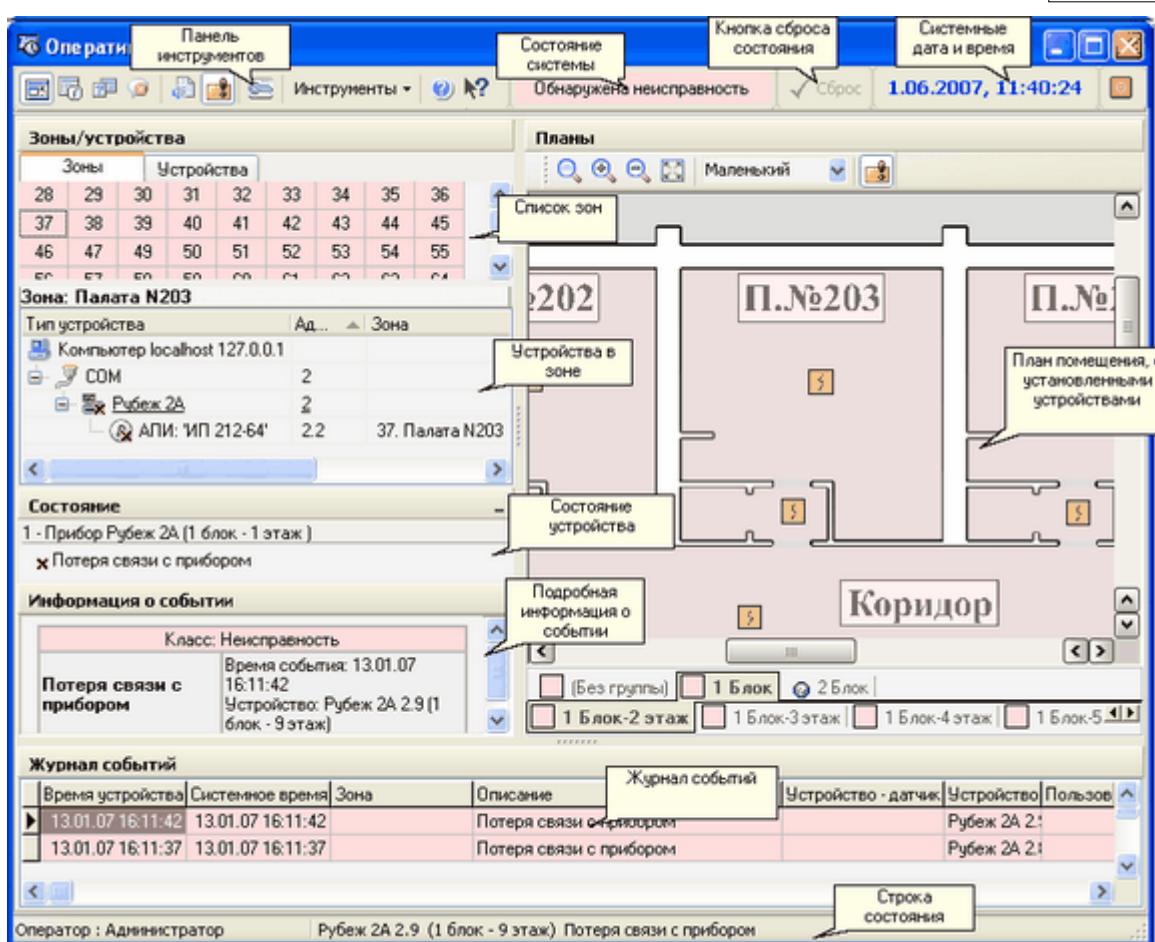


FastReport

4.8



5



6

6.1

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

6.2

-
-
- (,) () -

-
-
-
-
- , , , ,
- **XX**
- -1
- (**XX**) -
Firesec
- , , , ,
- , , , ,
- **XX** -
250.
- , , , ,
-2 -01,
RS-485. ,
RS-485,
- **RS-485** , ,
- , , , ,
- " " , , , ,
- , , , ,
- YY : **XX** -
YY

6.3

BSS

Borland Socket Server(BSS)

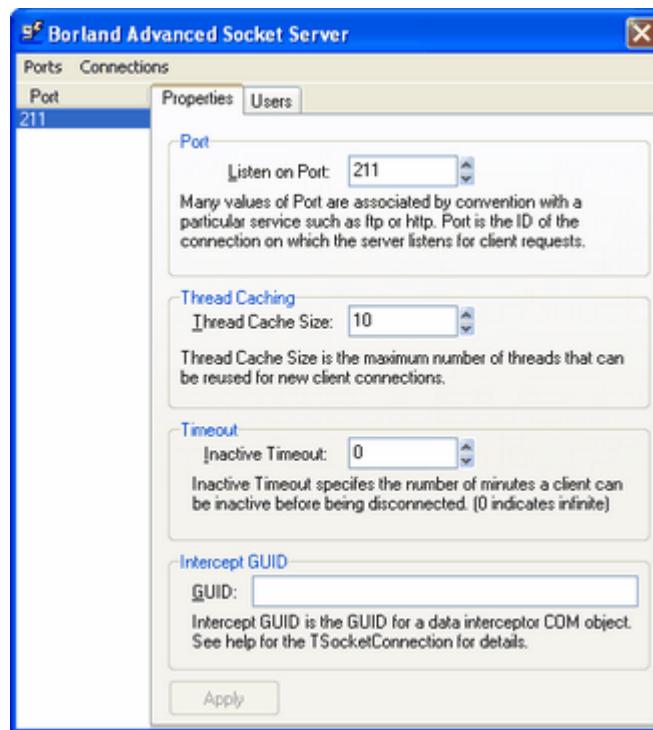
COM

TCP/IP.

NT, BSS

FireSec
BSS

BSS - Borland Advanced Socket Server.



Properties

BSS

- 211.

Users

6.4

(FS_CLIENT.INI).

INI,
[Server]

Sockets	1	0	1,	1
	Borland Socket Server			
Host		,	BSS,	DCOM.
Port		,	DCOM - TCP	IP LocalHo st
User		,	BSS.	211

Password

SQL (config.cdb).

SQL

(FS_SERVER.INI).

INI,

[Backup],

Path

AutoBackupDBEvery

XXX . 0 -

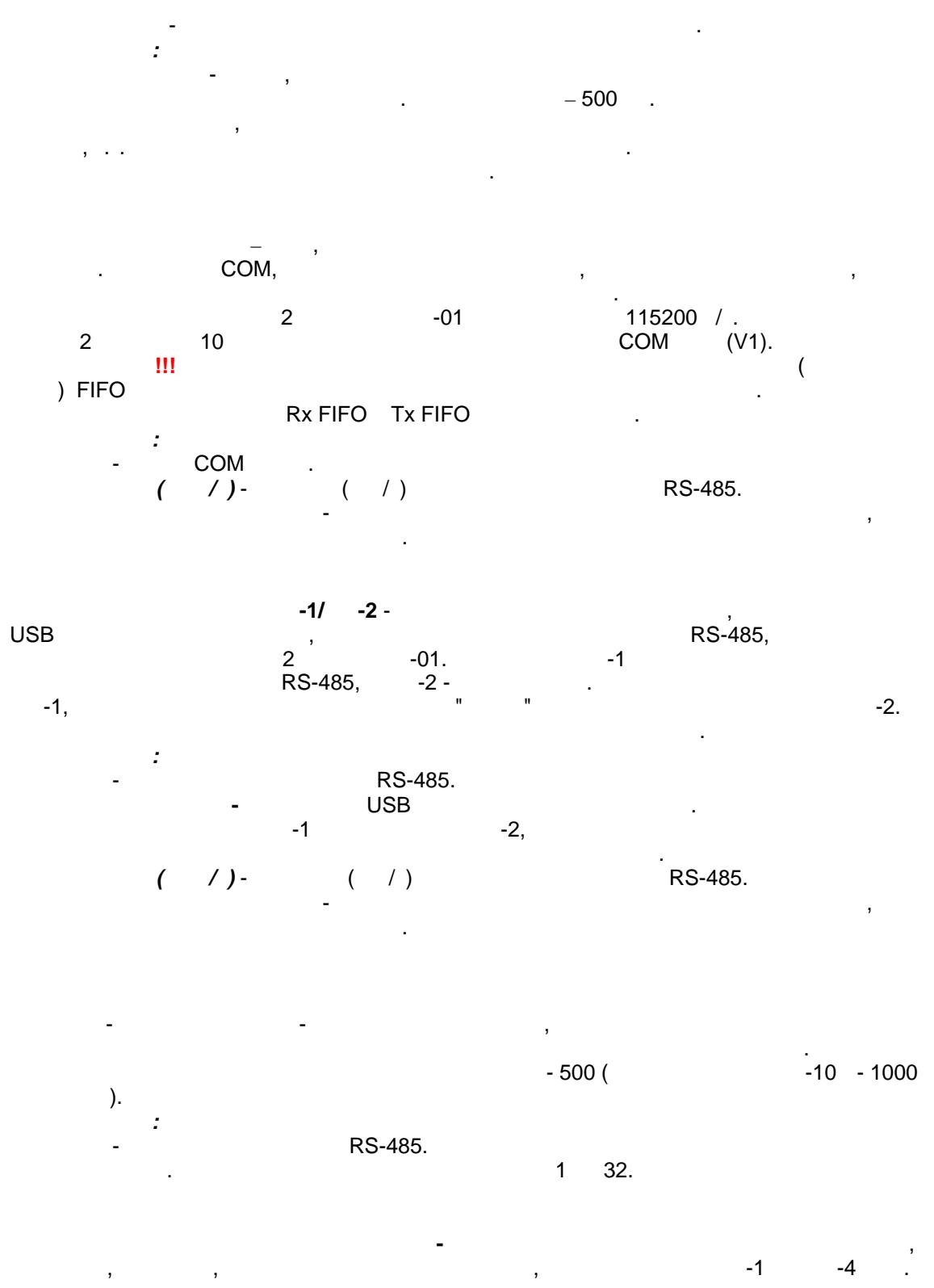
AutoBackupCFGEvery

XXX . 0 -

6.5

6.5.1

FireSec



10

6.5.2

-500

6.5.3 COM (V1)

2

-10

COM-

2

-01

2

10

9600 /
COM (V2).

) FIFO

!!!

Rx FIFO Tx FIFO

(/) - COM

RS-485.

6.5.4 COM (V2)

2

-01.

COM-

2

10

2

-01

115200 /
COM- (V1).

) FIFO

!!!

Rx FIFO Tx FIFO

COM-
(/) -

(/)

RS-485.

6.5.5

USB

-1/ -2

RS-485,
USB
-01. , 2
2 " ", -1, RS-485,
" ", -2 - , 2

RS-485.
USB

-1 -2,

(/) -

(/)

RS-485.

6.5.6

-3

-3

RS-485 , -2
-01 RS-202TD, LONTA-
202. , -2

RS-485.

6.5.7

-4

-4

RS-485 , -2
-01 NV2050, Navigard.

RS-485.

6.5.8

-10

-10 -

: 1000.

(),
(),
().

RS-485.

1 32.

6.5.9**-2****-2**212/101-64- 2R1, 212-64, 101-29- 3R1;
513-11;

-1;

-1;

-1, -2.

: 500.

RS-485.

1 32.

6.5.10**-2****-2**

: 500.

485).

-2

USB,

"

".

USB,

COM-

-2
(RS-
USB)

RS-485

USB.

"COM

"

COM-

(V2)"

2

".

-1/ -2,

-2

COM

USB

!

-2

COM

,

),

-2

USB

-1/ -2.

USB

. USB

RS-485.

1 100.

6.5.11**-01****-01 -**

, , : 500.
-2 , -01 ,
USB, USB, COM- -01 (RS-485).
" " (V2)" 01". , -01 ,
" " 01", , -01 , RS-485
-1/ -2, , ,
COM USB

!**-01****COM****(****),**

01

USB

-1/ -2.

USB

. USB

RS-485.

1 100.

6.5.12

, , , , -1 -4 ,

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6.5.13**-1**

, , , , , , , ,

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6.5.14

-4

-2 -01.

6.5.15

-2

-2 -01.

6.5.16

10

6.5.17

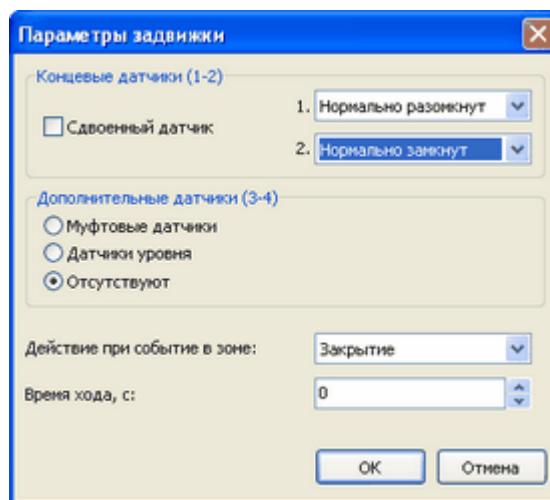
-1

-01 -1 2



6.5.18

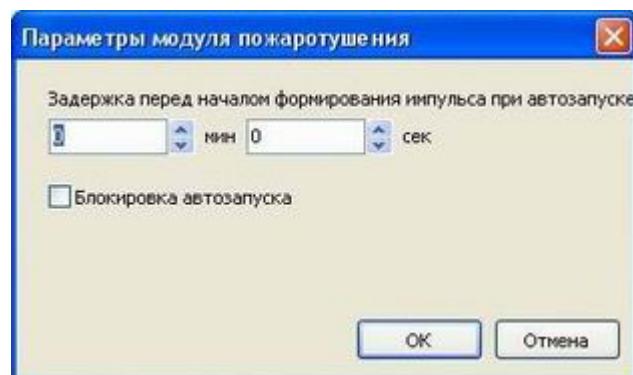
),



6.5.19

-1

-2 -01.



6.5.20

6.5.21

7

- DCOM - Distributed Component Object Model, Microsoft,
- (TCP/IP ,) - ,
- - ,

- , , ,
- - ,
- - (, , ,).
- - , , ,

8

- , " "
- FS_CLIENT.INI, Borland Socket Server, 211 ,
- , BSS). 211, BSS (.

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

Borland Socket Server,
FireSec

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