



# *OPC Scada Viewer*

Watch It!

OPC Scada Viewer

**1** **1**

1 ..... 1

2 ..... 2

**2** , **3**

1 ..... 3

2 ..... 4

3 ..... 4

4 ..... 5

**3** **5**

1 ..... 5

2 ..... 5

**4** **6**

1 ..... 6

2 ..... 8

..... 8

..... 8

..... 9

..... 9

..... 12

..... 25

3 ..... 30

4 ..... 38

..... 38

..... 40

5 ..... 41

# 1

## 1.1

OPC

OPC

OPC Scada Viewer  
OPC DA1 DA2,

OPC Scada Viewer

OPC.

OPC Scada Viewer

OPC

OPC Scada Viewer:

- 
- 
- 
- 
- 
- 
- 
- 
- 
- 

OPC

OPC

OPC

);

OPC

Windows,

OPC  
Windows 95.

!

SCADA,

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

: <http://www.aggsoft.com/serial-data-logger.htm>

## 1.2

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

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

**Bytes** ( ) - , , .

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

**Client/Server** ( / ) - , ,  
 ( , , . .)  
 ( ) .

**DA** (data access) - .

**IP, Internet Protocol** ( ) - Internet Protocol,  
 TCP/IP, IP IP ,  
 'xx.xx.xx.xx'.

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

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

TCP/IP  
Internet.

## 2

### 2.1

Copyright © 1999-2018 AGG Software.  
All Rights Reserved

1. OPC Scada Viewer

2.

3. OPC Scada Viewer

4.

5. OPC Scada Viewer  
sales@aggsoft.ru

6. OPC Scada Viewer

OPC Scada Viewer

7. **OPC Scada Viewer** "AS IS".

8.

9.

OPC Scada Viewer

10.

OPC Scada Viewer  
OPC Scada Viewer.

## 2.2

shareware-

[4](#)

- 
- 
- 

21

65535

## 2.3

shareware-

[3](#)

Internet,

## 2.4

OPC Scada Viewer	<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, ).

COM-

### 3.2

OPC Scada Viewer.

Viewer" , OPC Scada Viewer ,

"\Programs Files\OPC Scada

OPC Scada Viewer

4

4.1

- 
- 
- 
- 
- 

OPC OPC ; ;

OPC OPC ( ,

);

( .1).

1. " 8";

2. - - ;

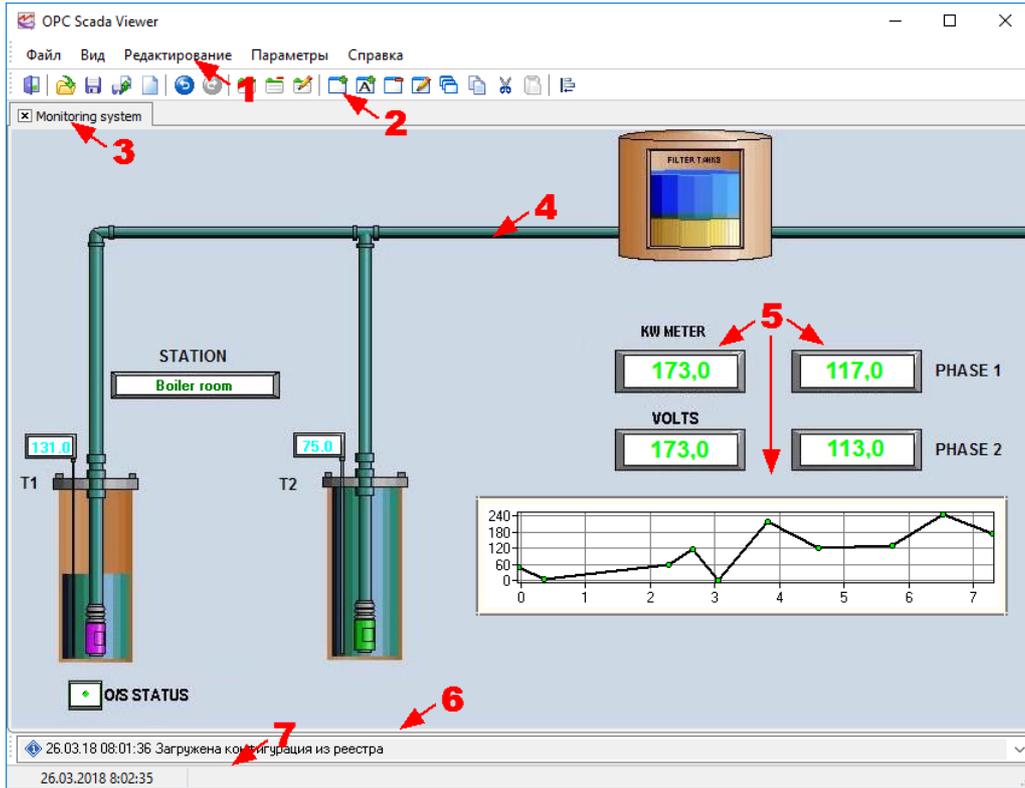
3. , " 9";

4. , ;

5. - OPC " 12";

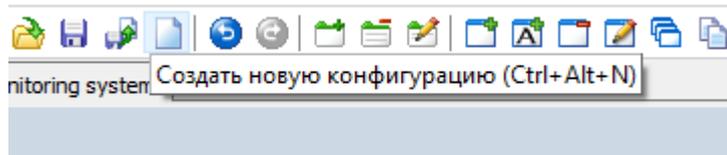
6. , ;

7. - ,



.1

(.2).



.2

1. \_\_\_\_\_ 9;
2. \_\_\_\_\_ 11;
3. \_\_\_\_\_ 12;

## 4.2

### 4.2.1

Ctrl "Ctrl+N" N.

### 4.2.2

: Ctrl+O



".xml".

: Ctrl+S



".xml"

: Ctrl+N



: Alt+F4



### 4.2.3

### 4.2.4

: *Ctrl+Z*



100

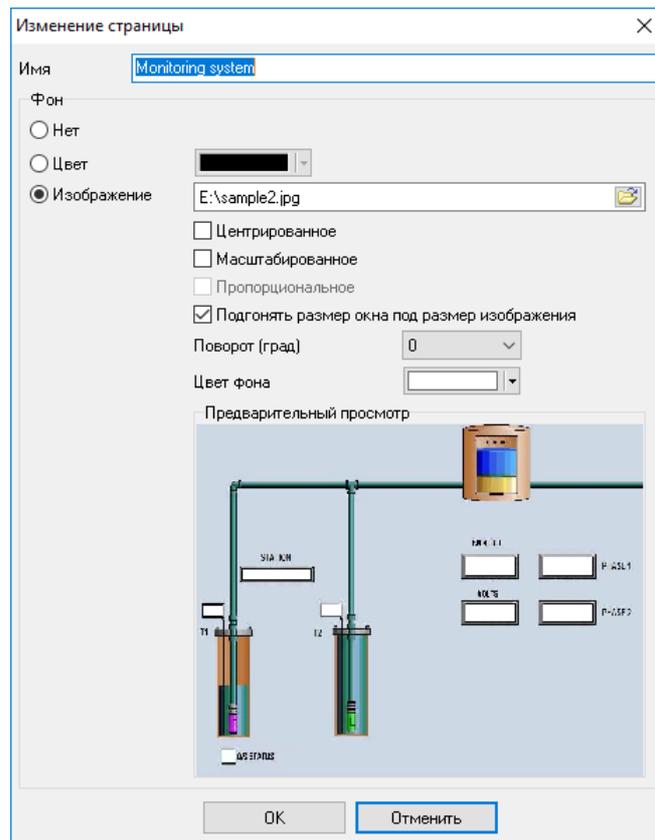
: *Ctrl+R*



: *Ctrl+T*



( .1).



.1.

1. -
2. -
3. -

GIF.

: BMP, JPG, PNG

- 
- 
- 

"

"

"

"

"

"

"

- - ,
- - ;
- - ,



" "



" " ( .1)

: Ctrl+N



" "

).

OPC (OPC  
" \_\_\_\_\_ [12]



" \_\_\_\_\_ [12]

: Ctrl+Shift+C

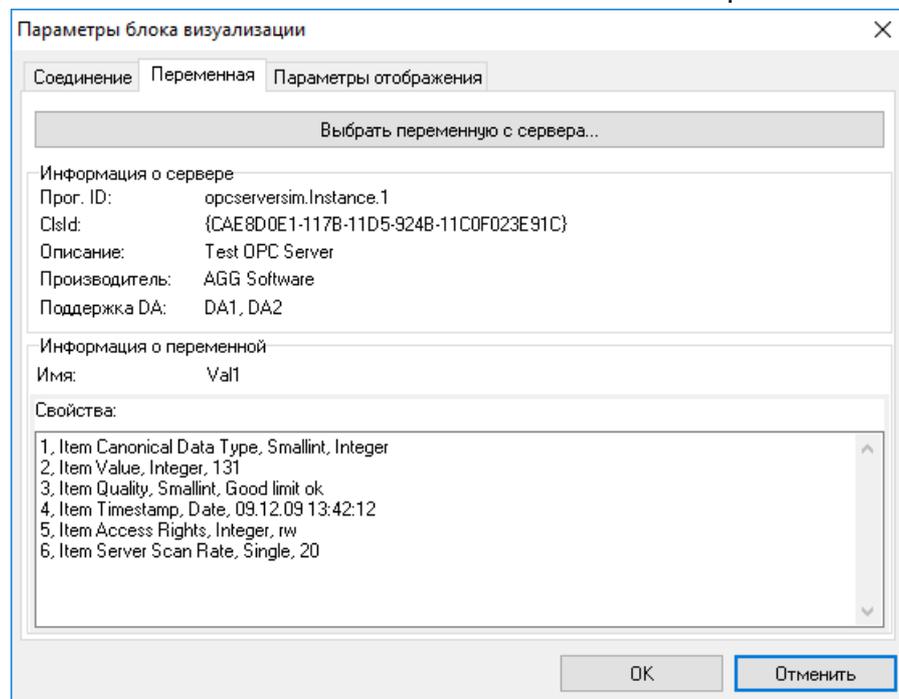


## 4.2.5

),

OPC

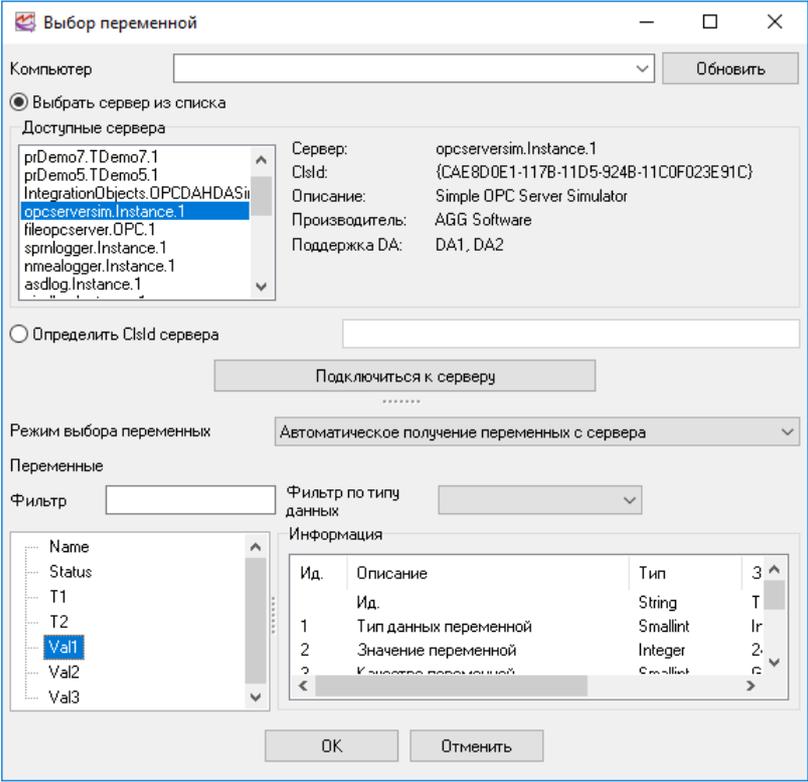
(.1).



.1.

"

(.2).



.2.

IP

LOCALHOST.

OPC

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

OPC

OPC

( )

DA - DA.

" "

/

1.

2.

OPC

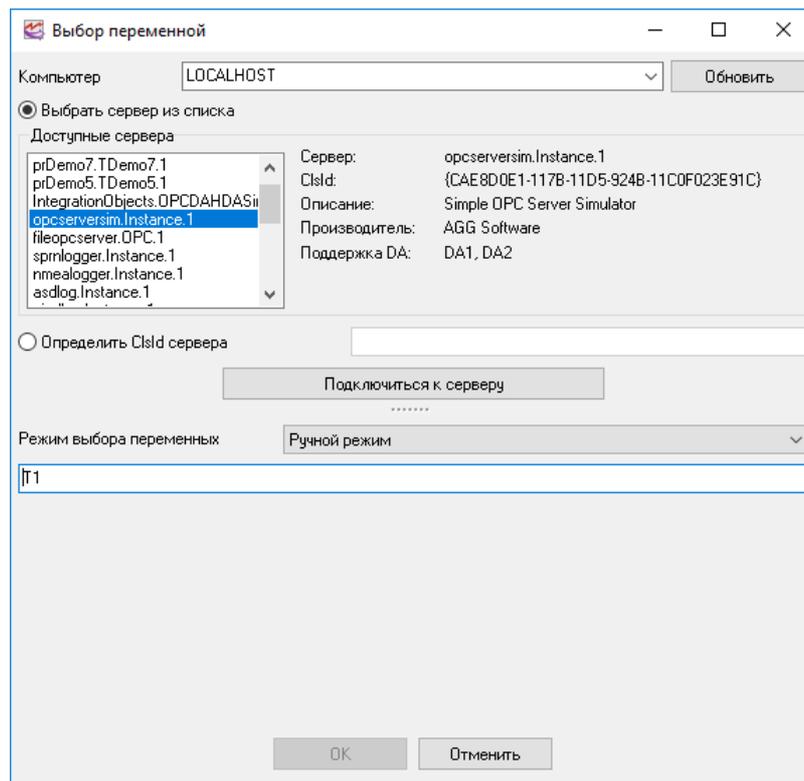
• ID (

)-

•

•

•



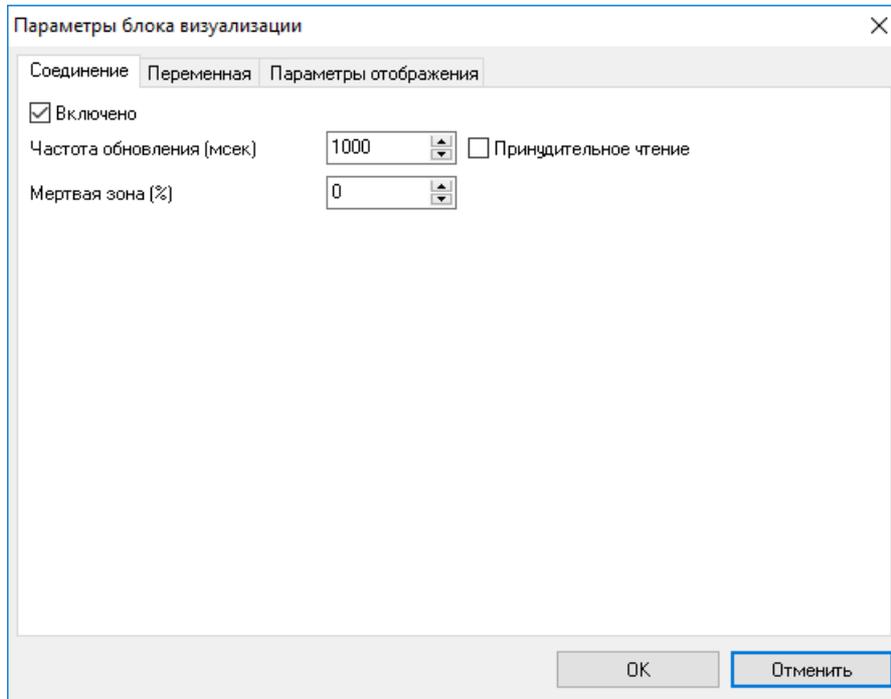
. 3.

"OK",

( .1).

OPC

" ( .4)



.4.

OPC

OPC

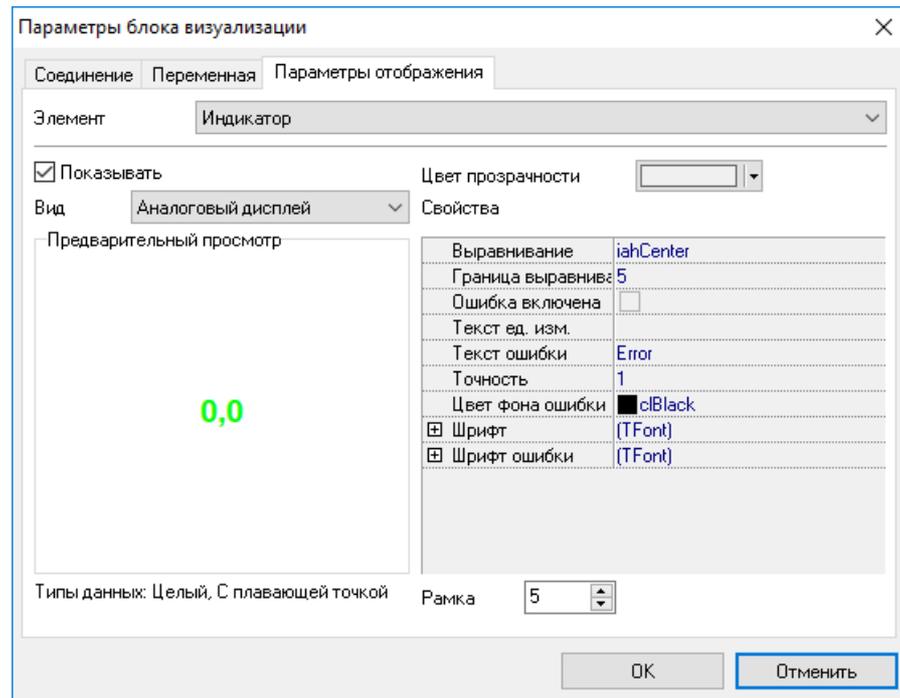
- 0

OPC

OPC

OPC

" ( .5).



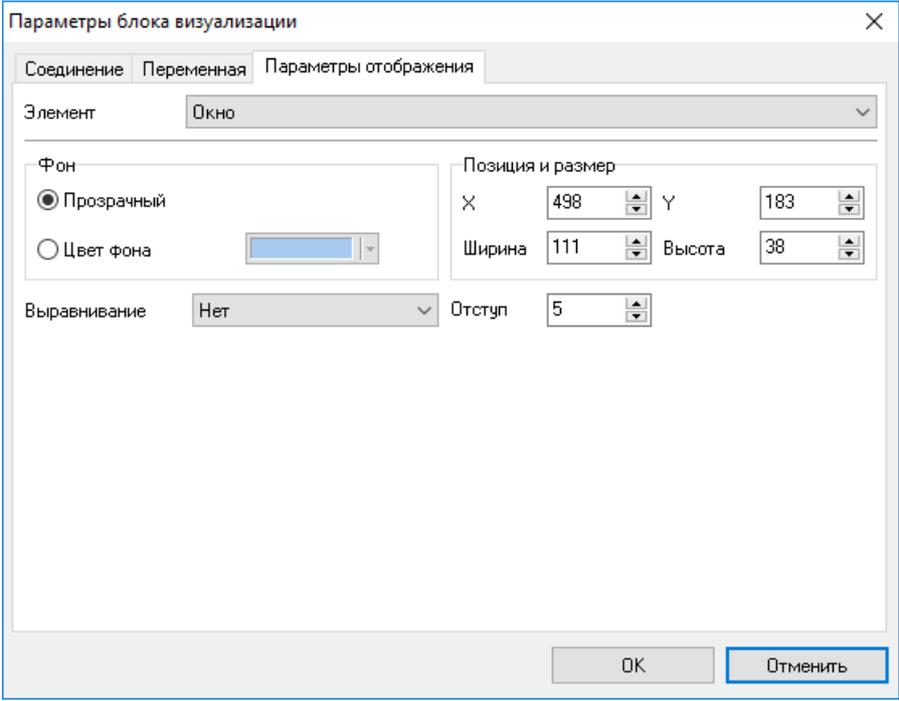
. 5.

( .6).



. 6.

" ( .7).



.7.

1.

2.

3.

1.

2.

3.

.5.

4.

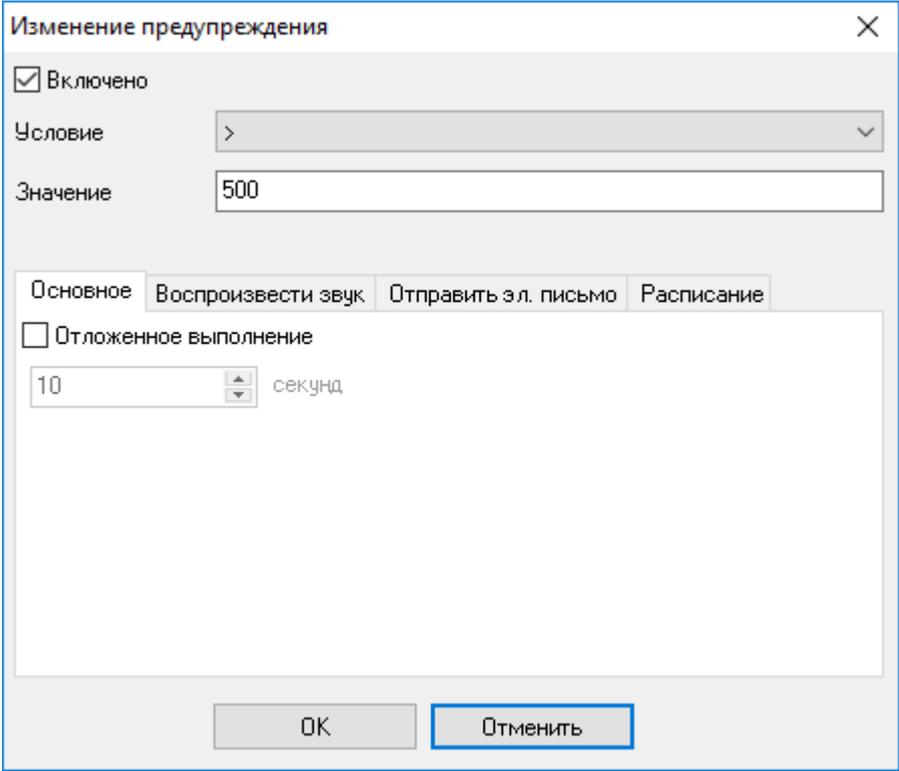
5.

**OPC**

**OPC**

20





. 9.

1.

2.

3.

1.

Изменение предупреждения

Включено

Условие >

Значение 500

Основное Воспроизвести звук Отправить эл. письмо Расписание

Воспроизвести звук

chimes.wav

Воспроизводить

Один раз  Постоянно

Воспроизводить Стоп

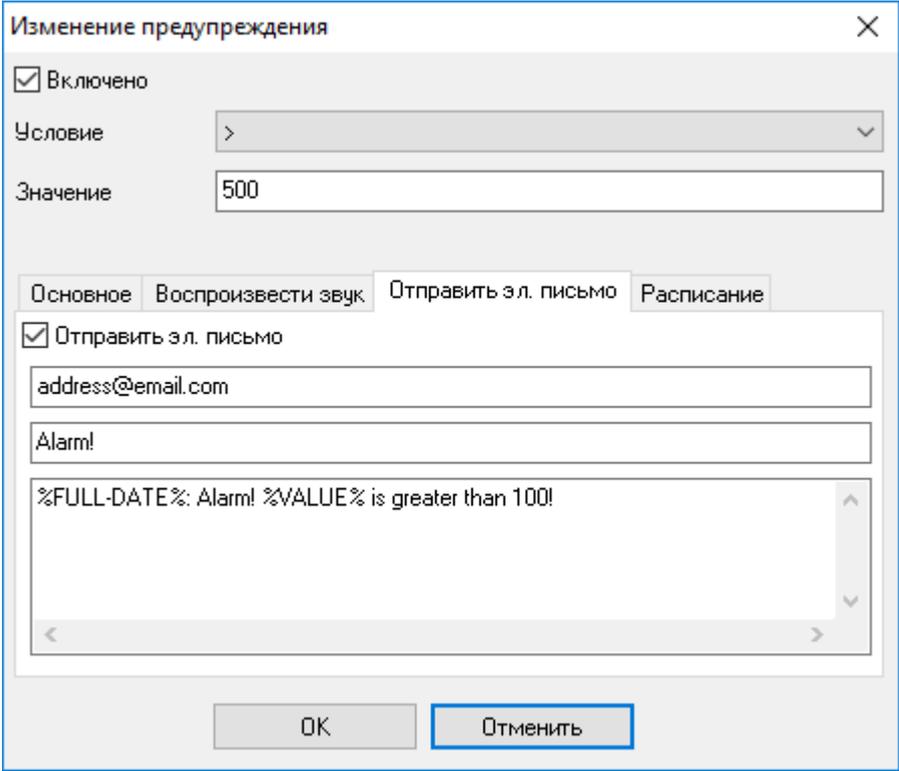
OK Отменить

. 10.

2. ( . 11) -

, %VALUE%.

%FULL-DATE% -  
%DATE% -  
%TIME% -  
%VALUE% -



. 11.

1. ( . 12) -

24

Изменение предупреждения

Включено

Условие >

Значение 500

Основное Воспроизвести звук Отправить эл. письмо **Расписание**

Пн  Вт  
 Ср  Чт  
 Пт  Сб  
 Вс

0:00:00 - 0:00:00  
 0:00:00 - 0:00:00  
 0:00:00 - 0:00:00

OK Отменить

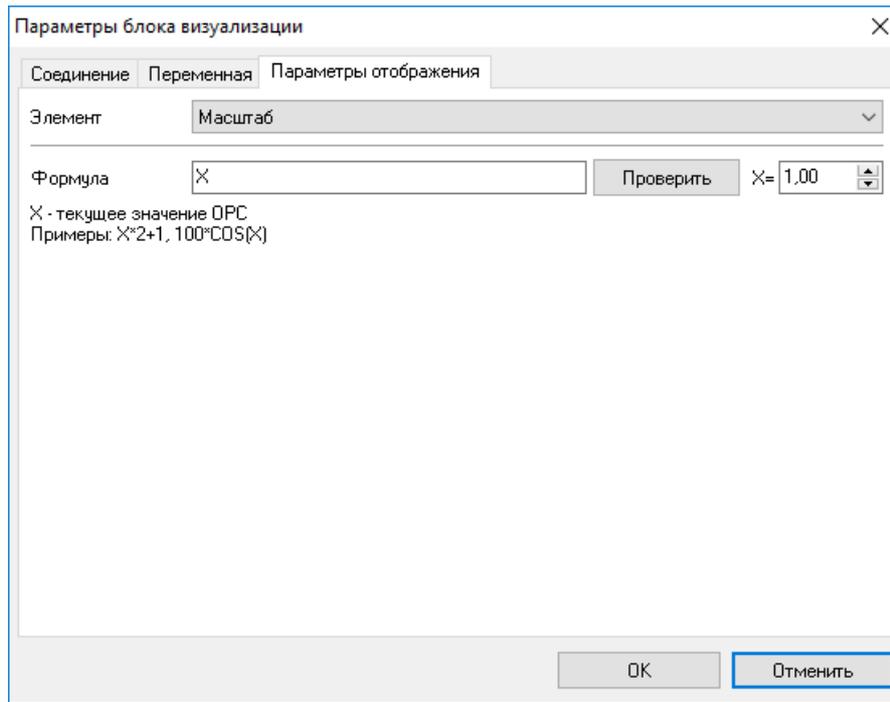
. 12.

"OK".

"OK"

( . 13)  
OPC

X\*2-1  
100\*COS(X)



. 13.

( . 14, 15).

[BasicScript](#)<sup>[38]</sup>,  
Basic.

[BasicScript](#)<sup>[38]</sup>:

```
dim i, j = 0           //
function f1()         //
end function          //
sub p1()
end sub
//
for i = 0 to 10
  p1()
next
```

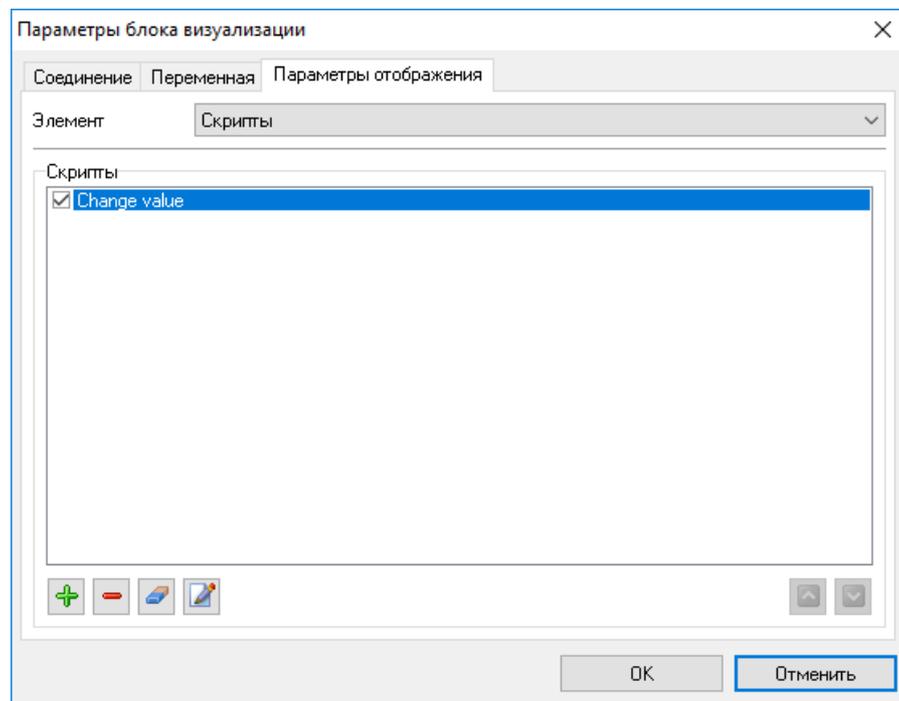
GetValue(Name) -

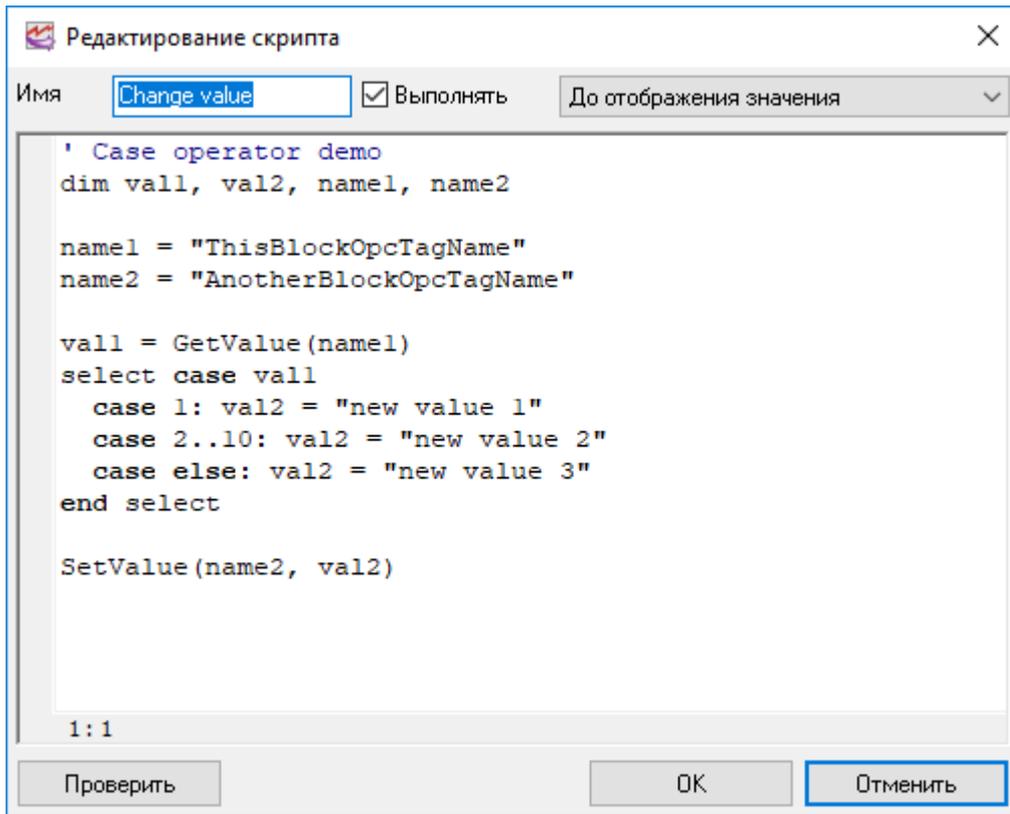
OPC

OPC

SetValue(Name, Value) -

```
        - " ( 112).  
:  
'  
        Case  
dim val1, val2, name1, name2  
  
name1 = "ThisBlockOpcTagName"  
name2 = "AnotherBlockOpcTagName"  
  
val1 = GetValue(name1)  
select case val1  
    case 1: val2 = "new value 1"  
    case 2..10: val2 = "new value 2"  
    case else: val2 = "new value 3"  
end select  
  
SetValue(name2, val2)
```





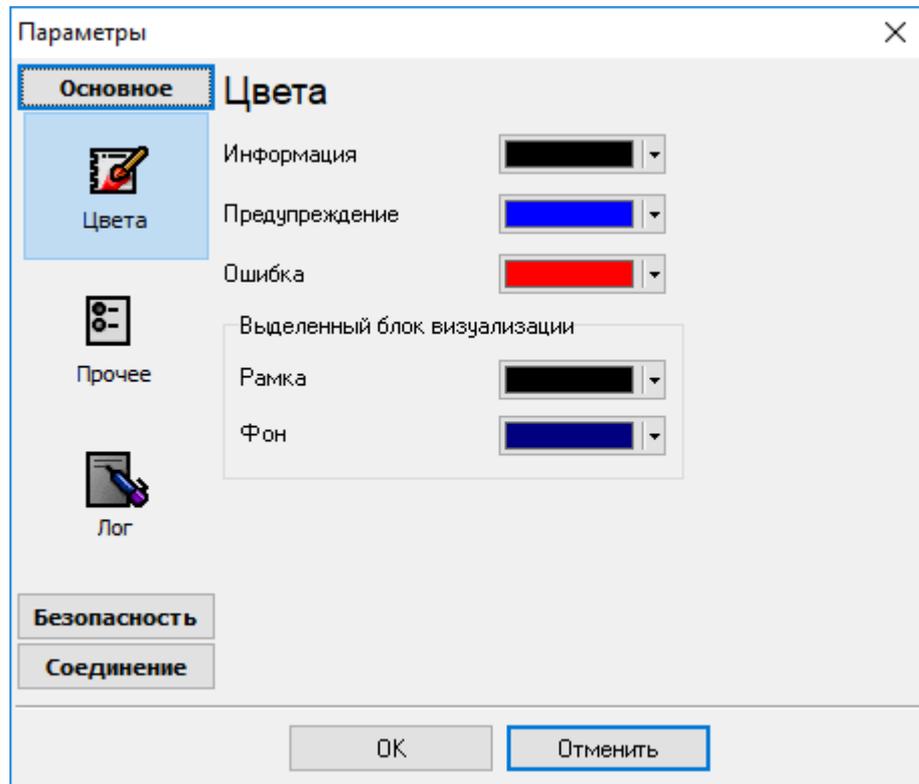
.15.

"OK".

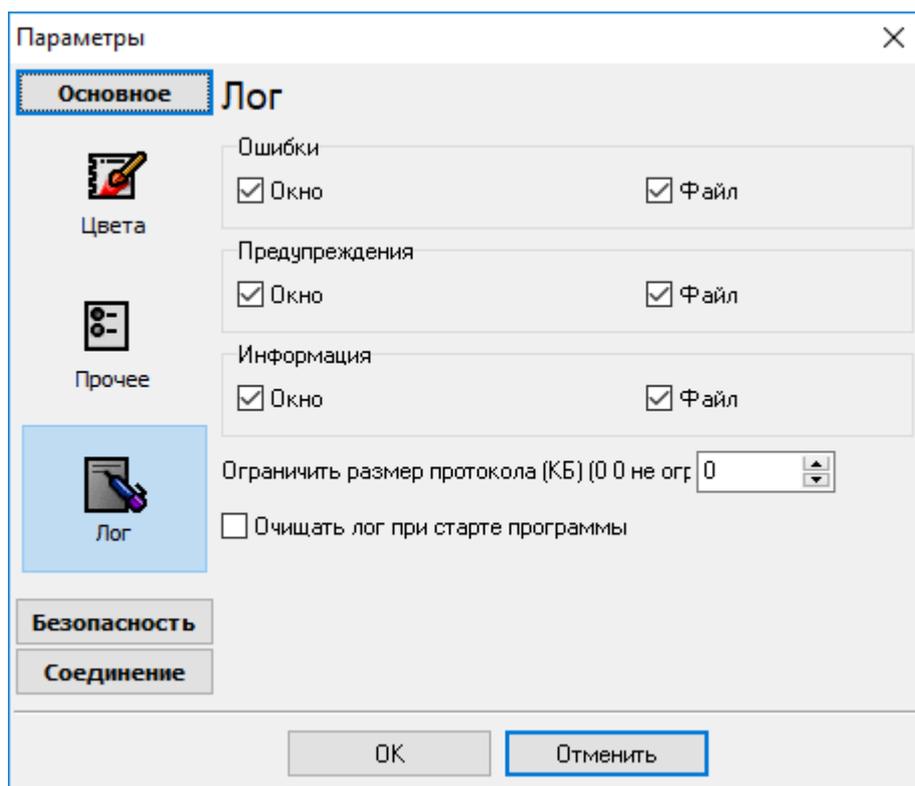
"OK"

## 4.2.6

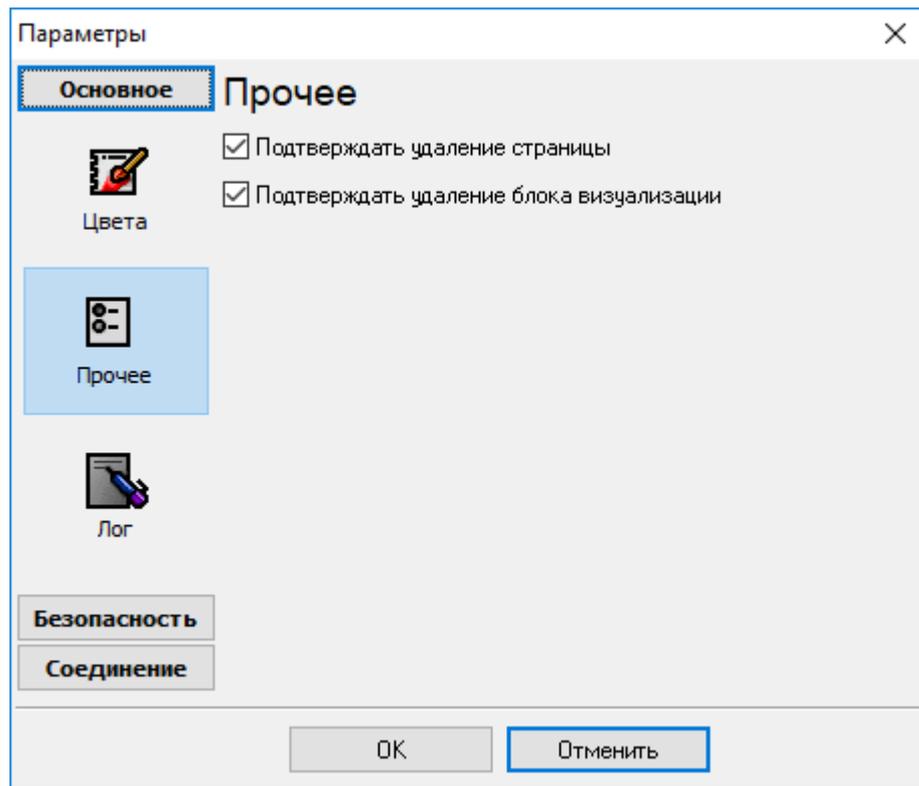
(.1).



.1.

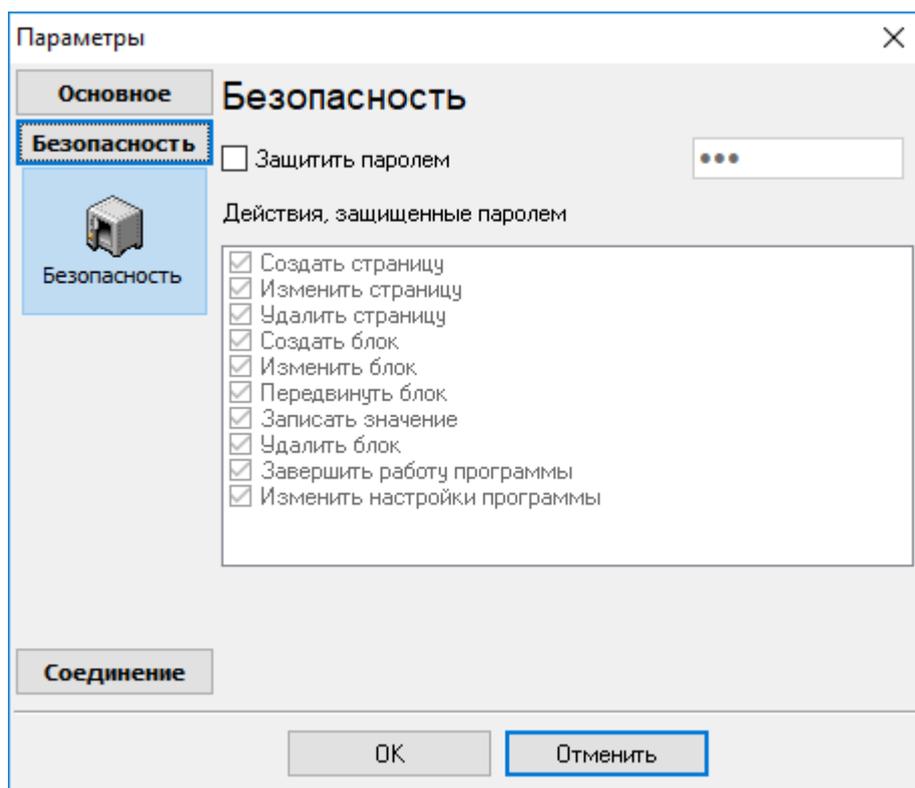


.2.



.3.

2

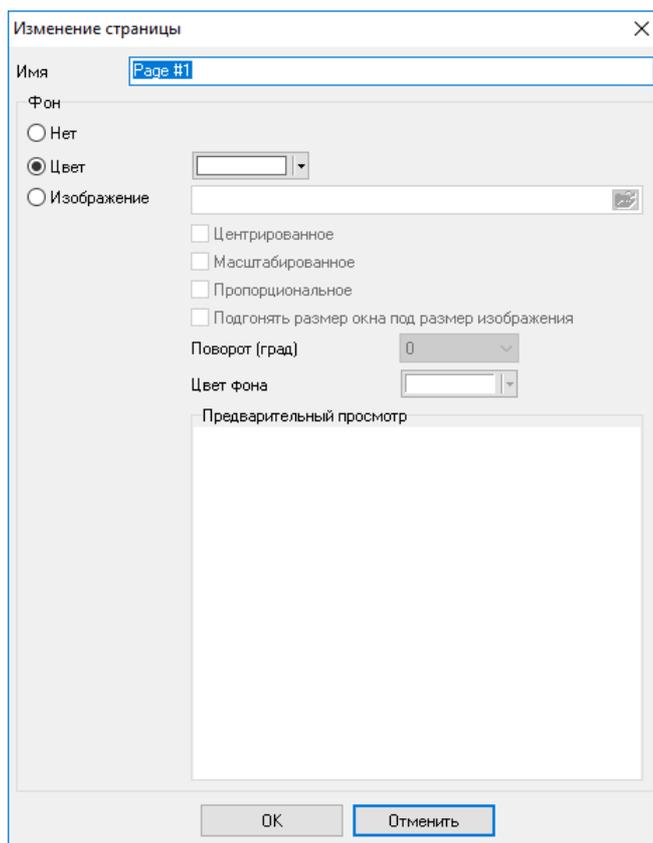


.4.

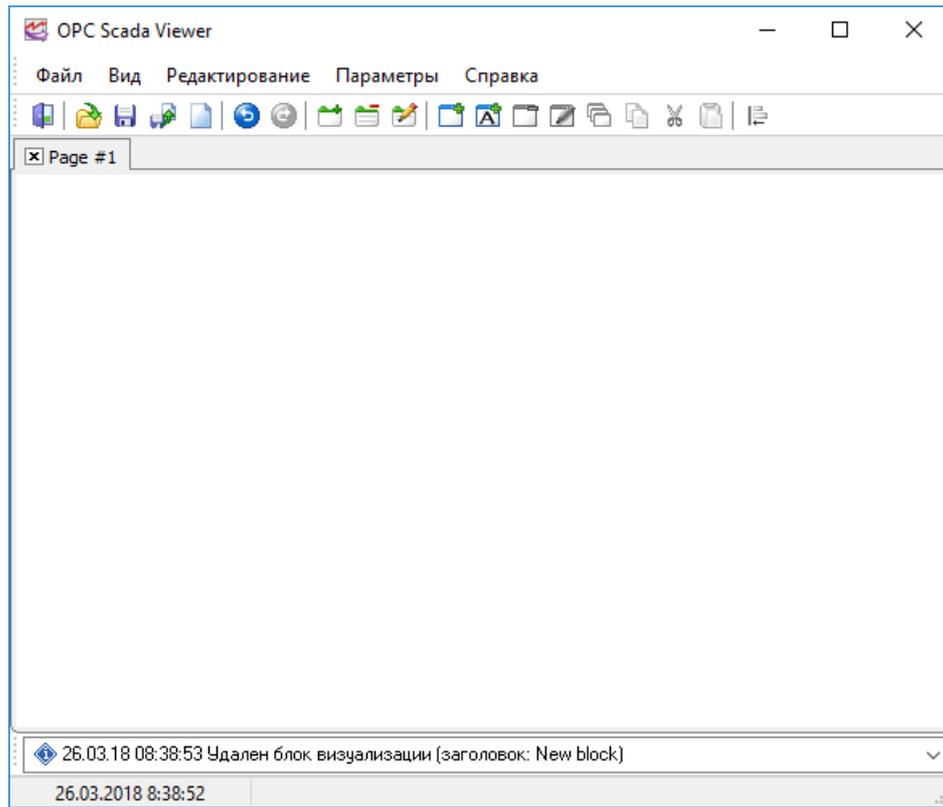
. 5

Google - GMail.





.1.



.2.

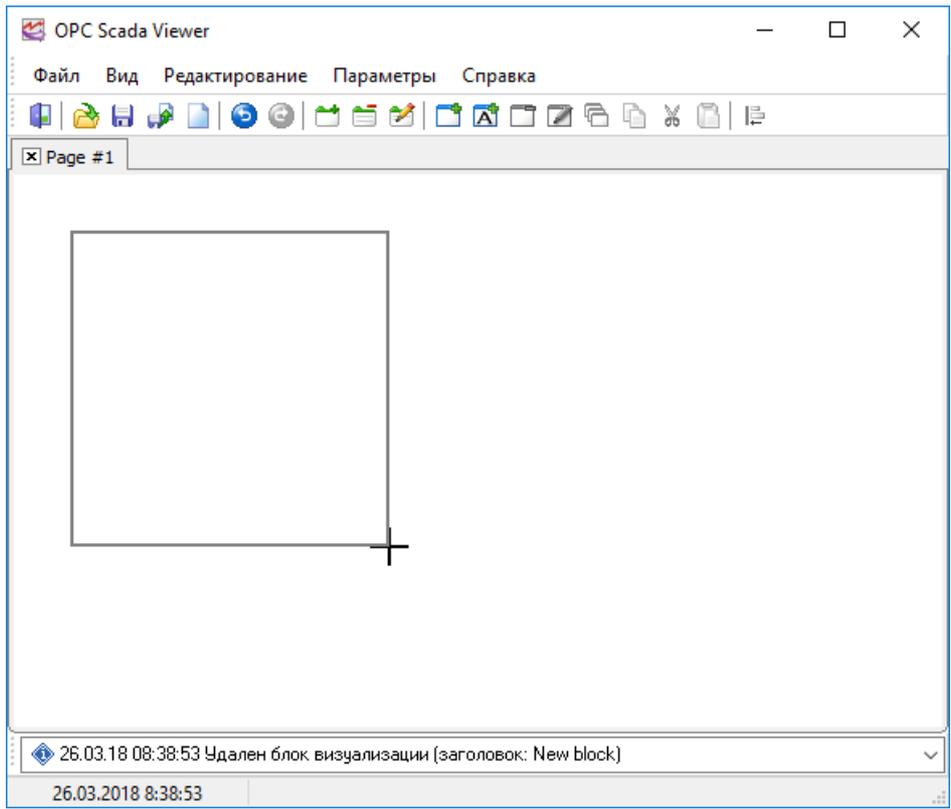
2.

"

" - "

"

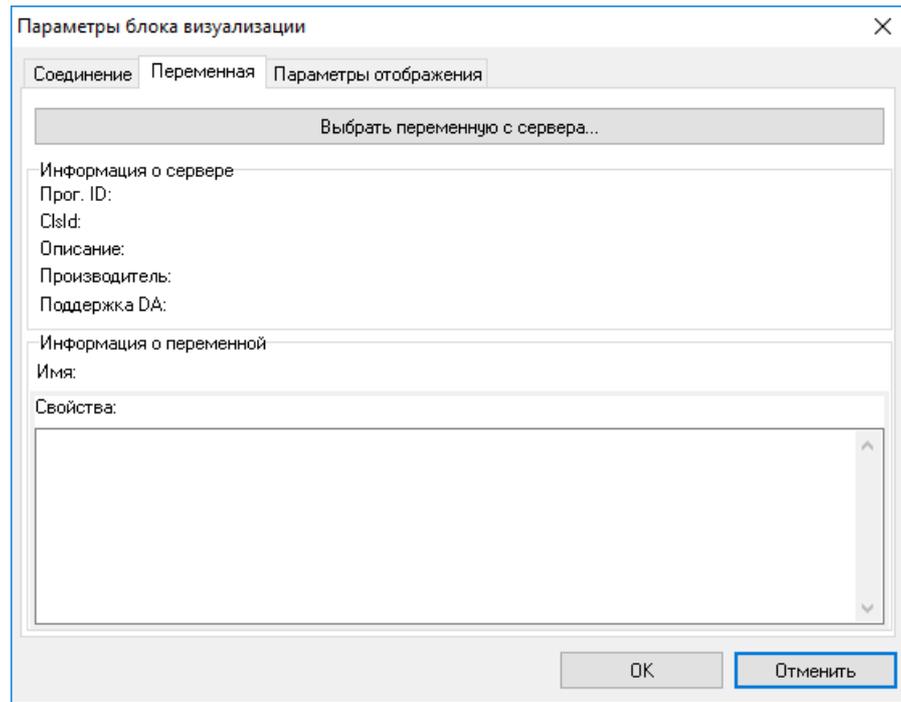
( .3),



.3.

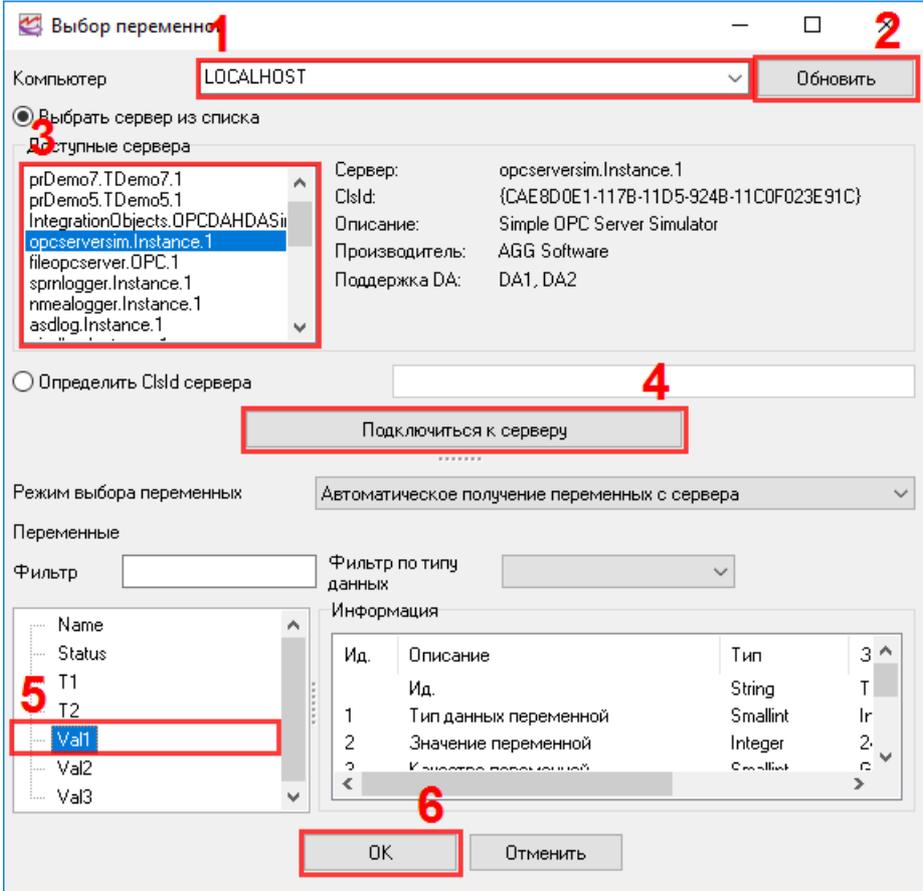
### 3. OPC

, ( .4). , " " "



.4. OPC

1. . ( .5) , , OPC
2. " " ;
3. ;
4. " " ;
5. ;
6. "OK".

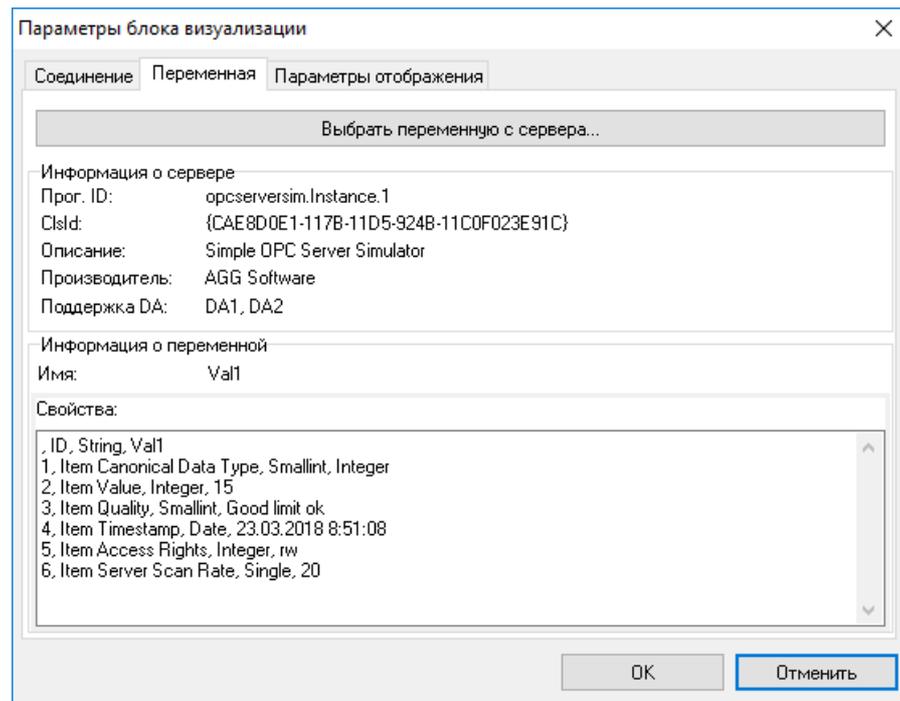


.5. OPC

"OK"

"

" (.6).



.6.

4.

" " , " "

5.

" "

( .7). :

1.

" " " " ;

2.

" " ;

3.

;

4.

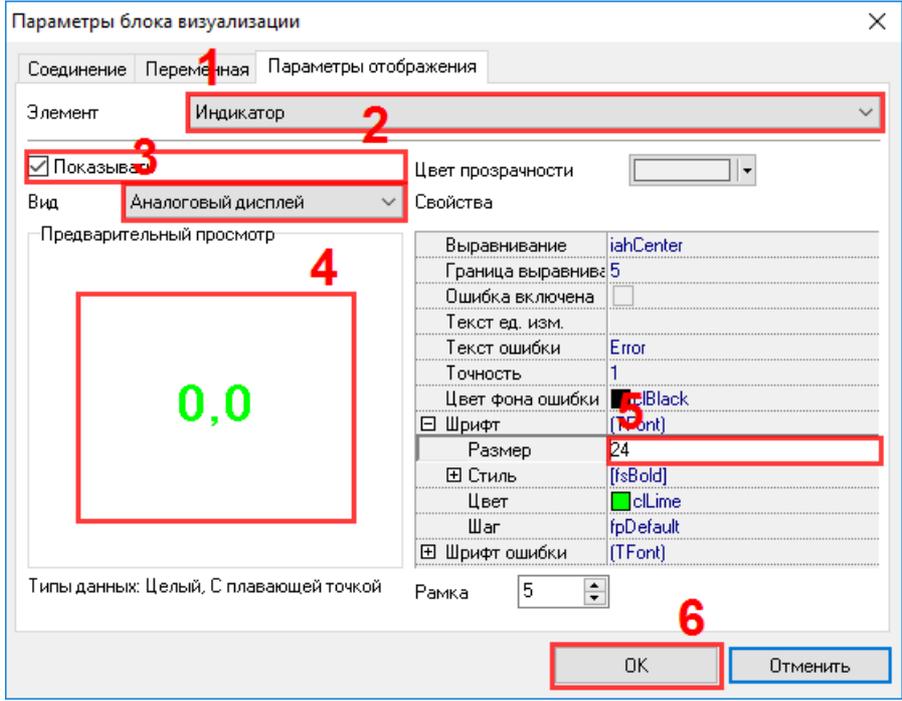
;

5.

, ,

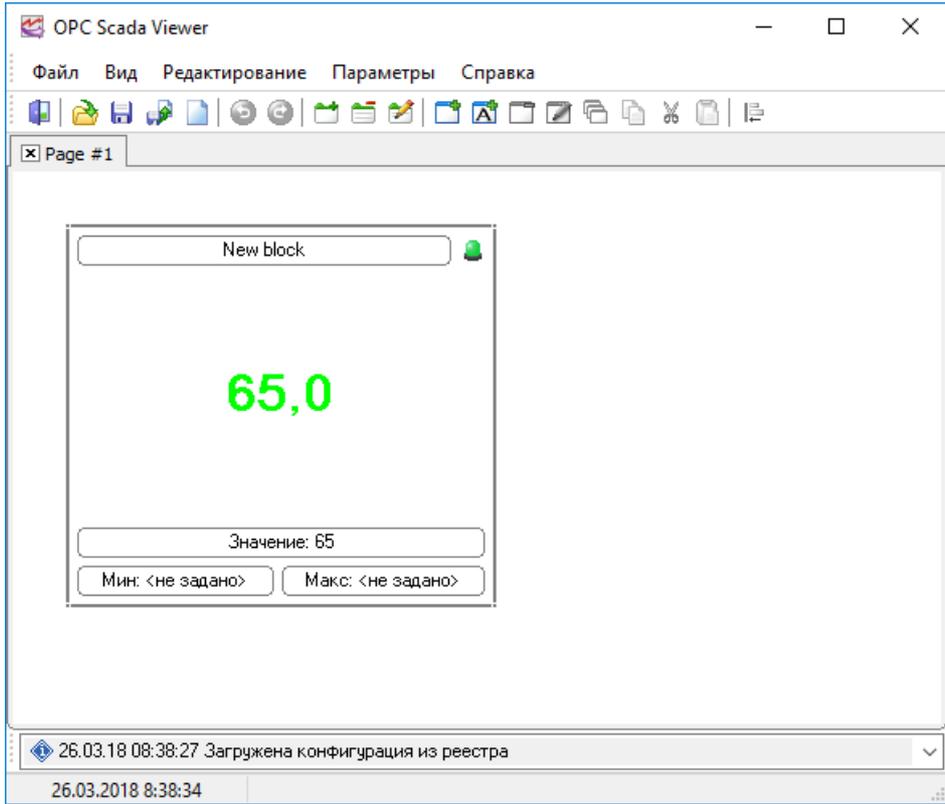
6.

; "OK",



.7.

( .8).



.8.

, " 8" .1.

## 4.4

### 4.4.1

BasicScript VBScript, \ "ScriptSamples"

```
function GetValue(Name: string): Variant
```

OPC

**Name** -

```
function SetValue(Name: string; Value: variant)
```

OPC

OPC

**Name** -

**Value** -

```
function ExecuteFile(FileName, Parameters, WorkingDir: string; Options: integer): integer
```

**FileName** -

**Parameters** -

**WorkingDir** - ( , ).

**Options**

0 -

3 -

6 -

9 -

5 -

7 -

8 -

4 -

1 -

```
function AppendFile(FileName, Data: string): boolean

function WriteFile(FileName, Data: string): boolean

function ReadFile(FileName: string): string
```

### GetValue/SetValue

```
dim val1, val2, name1, name2

name1 = "ThisBlockOpcTagName"
name2 = "AnotherBlockOpcTagName"

val1 = GetValue(name1)
select case val1
  case 1: val2 = "new value 1"
  case 2..10: val2 = "new value 2"
  case else: val2 = "new value 3"
end select

SetValue(name2, val2)

dim val1, name1
dim working_dir = ""
dim parameters = ""

name1 = "ThisBlockOpcTagName"
val1 = GetValue(name1)

if val1 > 100 then
  ExecuteFile("C:\alert.bat", parameters, working_dir, 0)
end if

dim val1, name1, s

name1 = "ThisBlockOpcTagName"
val1 = GetValue(name1)
```

```

if vall > 100 then
  s = "Value is too high"
  AppendFile("C:\Logs\log.txt", s) '
end if

```

## 4.4.2

```

function IntToStr(i: Integer): String
function FloatToStr(e: Extended): String
function DateToStr(e: Extended): String
function TimeToStr(e: Extended): String
function DateTimeToStr(e: Extended): String
function VarToStr(v: Variant): String

function StrToInt(s: String): Integer
function StrToFloat(s: String): Extended
function StrToDate(s: String): Extended
function StrToTime(s: String): Extended
function StrToDateTime(s: String): Extended

function Format(Fmt: String; Args: array): String
function FormatFloat(Fmt: String; Value: Extended): String
function FormatDateTime(Fmt: String; DateTime: TDateTime): String
function FormatMaskText(EditMask: string; Value: string): string

function EncodeDate(Year, Month, Day: Word): TDateTime
procedure DecodeDate(Date: TDateTime; var Year, Month, Day: Word)
function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime
procedure DecodeTime(Time: TDateTime; var Hour, Min, Sec, MSec: Word)
function Date: TDateTime
function Time: TDateTime
function Now: TDateTime
function DayOfWeek(aDate: DateTime): Integer
function IsLeapYear(Year: Word): Boolean
function DaysInMonth(nYear, nMonth: Integer): Integer

function Length(s: String): Integer
function Copy(s: String; from, count: Integer): String
function Pos(substr, s: String): Integer
procedure Delete(var s: String; from, count: Integer): String
procedure Insert(s: String; var s2: String; pos: Integer): String
function Uppercase(s: String): String
function Lowercase(s: String): String
function Trim(s: String): String
function NameCase(s: String): String
function CompareText(s, s1: String): Integer
function Chr(i: Integer): Char
function Ord(ch: Char): Integer
procedure SetLength(var S: String; L: Integer)

function Round(e: Extended): Integer
function Trunc(e: Extended): Integer
function Int(e: Extended): Integer
function Frac(X: Extended): Extended

```

```
function Sqrt(e: Extended): Extended
function Abs(e: Extended): Extended
function Sin(e: Extended): Extended
function Cos(e: Extended): Extended
function ArcTan(X: Extended): Extended
function Tan(X: Extended): Extended
function Exp(X: Extended): Extended
function Ln(X: Extended): Extended
function Pi: Extended

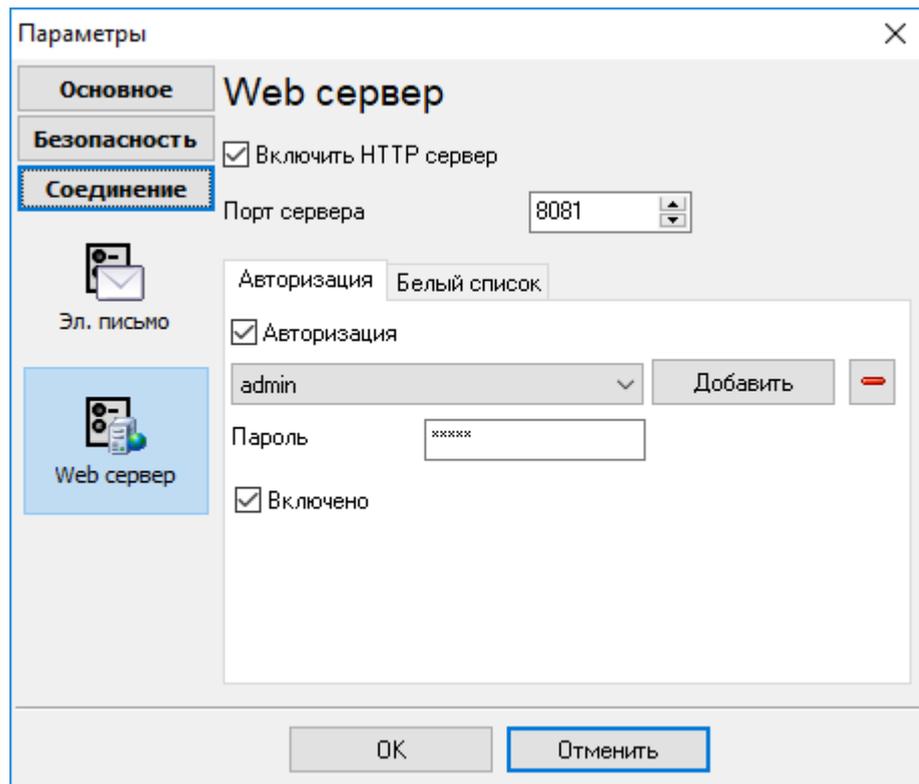
procedure Inc(var i: Integer; incr: Integer = 1)
procedure Dec(var i: Integer; decr: Integer = 1)
procedure RaiseException(Param: String)
procedure ShowMessage(Msg: Variant)
procedure Randomize
function Random: Extended
function ValidInt(cInt: String): Boolean
function ValidFloat(cFlt: String): Boolean
function ValidDate(cDate: String): Boolean
function CreateOleObject(ClassName: String): Variant
function VarArrayCreate(Bounds: Array; Typ: Integer): Variant
```

## 4.5

<http://127.0.0.1:8081>

<http://192.168.1.1:8081>

<http://11.22.33.44:8081>



.1.