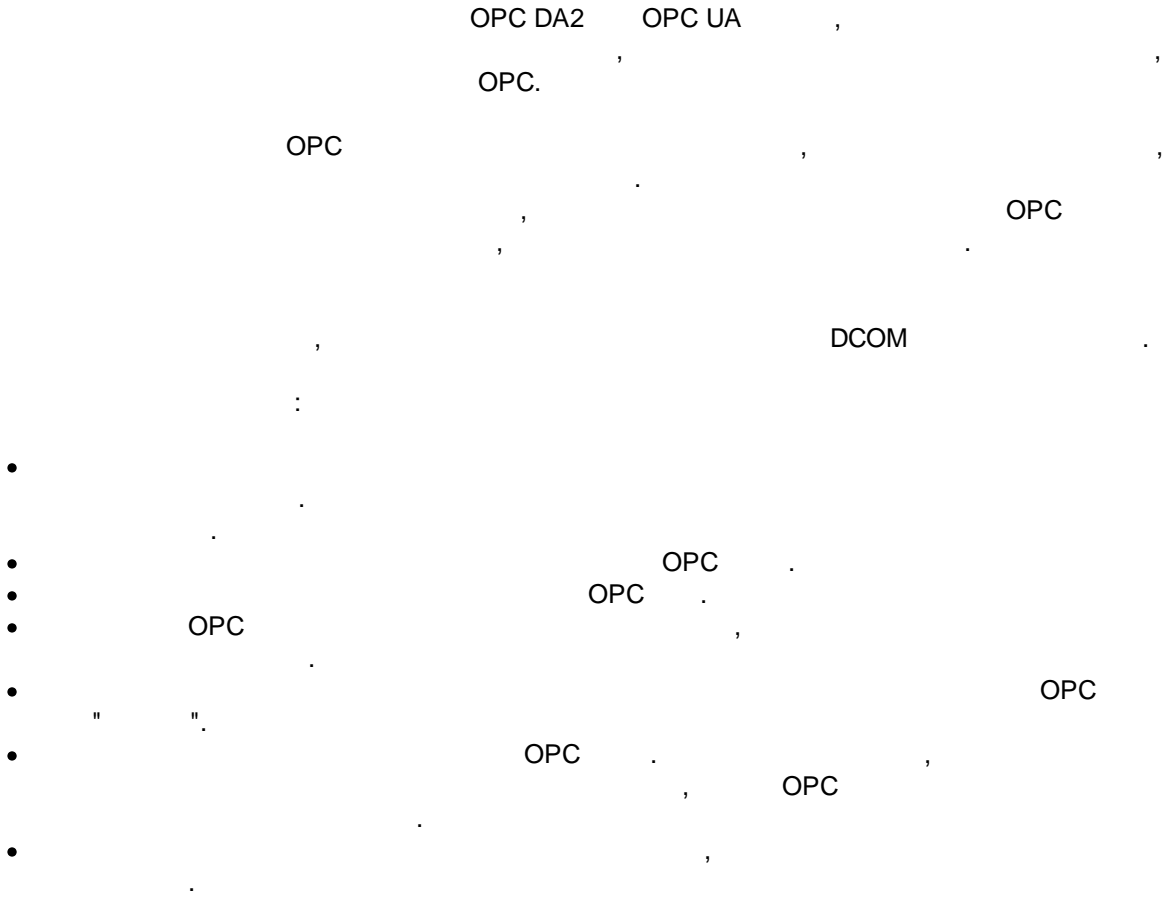


File OPC Server

<b>1</b>		<b>1</b>
<b>2</b>	,	<b>1</b>
1	.....	1
2	.....	2
3	.....	3
4	.....	3
<b>3</b>		<b>4</b>
1	.....	4
2	.....	4
<b>4</b>		<b>4</b>
1	.....	4
2	.....	5
3	.....	5
4	.....	6
5	.....	9
<b>5</b>	<b>OPC</b>	<b>10</b>
<b>6</b>		<b>10</b>
<b>7</b>	<b>OPC</b>	<b>11</b>
<b>8</b>		<b>11</b>
<b>9</b>	<b>OPC UA</b>	<b>12</b>

# 1



# 2

## 2.1

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1. File OPC Server

2.

3.

File OPC Server

4.

5.

File OPC Server  
sales@aggsoft.ru

6. File OPC Server

File OPC Server

7. File OPC Server

"AS IS".

8.

9.

File OPC Server

10.

File OPC Server  
File OPC Server.

## 2.2

shareware-

- 
- 65535

## 2.3

shareware-

Internet,

## 2.4

File OPC Server	<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

File OPC Server.

, File OPC Server

"\Programs Files\File OPC Server"

File OPC Server

## 4

### 4.1

fileopcserver.xml

fileopcserver.exe.

:

```
<Config>
  <Log file="fileopcserver.log" info="1" warning="1" error="1" limit="1000000" />
  <File name="data\ac-net7.raw" readrate="1000" />
  <Tags>
    <Tag name="TA7.COMMON.Time" datatype="time_t" offset="0" />
    <Tag name="TA7.ABS_VIBRO_EXT.01-V.Array16" datatype="short" offset="36;40;44"
arraysize="3" />
  </Tags>
```

```
</Config>
```

## 4.2

"Log" XML

```
<Log file="fileopcserver.log" info="1" warning="1" error="1" limit="1000000" />
```

**file** ( ; : ) –

**info** ( ; : 1) –  
"1" ( ),

**warning** ( ; : 1) –  
info,

**error** ( ; : 1) –  
info,

**limit** ( ; : 100000) –

## 4.3

"DesktopModeSettings" XML

```
<DesktopModeSettings>
  <CustomTitle addversion="1">File OPC Server</CustomTitle>
  <CustomLabel>Uptime</CustomLabel>
  <ExitPassword enabled="1">admin</ExitPassword>
  <StopPassword enabled="1">admin</StopPassword>
</DesktopModeSettings>
```

**CustomTitle** ( ; : "addversion" "1", ) –

```
CustomLabel ( ; : ) –
```

```
ExitPassword ( "enabled" ; "1", : ) –
"blockuserlogout" , "1",
```

```
StopPassword ( ; : ) –
"enabled" "1", ,
```

## 4.4

"File" XML

```
<File name="data.raw" readrate="1000" writereetry="3" />
```

```
name ( ; : ) –
"\192.168.1.1\Public\Data\data.bin".
```

```
readrate ( ; : 1000) –
```

```
writereetry ( ; : 1) –
```

### OPC (Tags)

OPC , ,

```
<Tags>
```

```
<Tag name="TA7.COMMON.Time" datatype="time_t" offset="0" />
```

```
</Tags>
```

```
name ( ; : ) – OPC
```

```
"TA7.COMMON.Time"
```

```
:
```

TA7



|--- COMMON  
 |---- Time

**datatype** ( ; : short) –  
 OPC .

	( )	
time_t	4	++ ( UTC+0). 1 1970.
datetime	8	OleTime ( . MSDN OleTimeToSystemTime).
short	2	( -32768 32767)
ushort	2	( 0 65535)
float	4	IEEE 754
double	8	IEEE, 11 52 , (2.23*10^308 to 1.79*10^308)
char	1	ASCII
byte	1	0 255
shortint	1	-128 127
ulong	4	0 4294967295
integer	4	-2147483648..2147483647
int64	8	(-2^63..2^63-1)
ansi		ASCII, arraysize.
unicode		Unicode, arraysize.
utf8		UTF-8, arraysize.
watchdog	4	,"time_t", ( . "timeout" )
boolean	1	" " ( " " ( ) )

**offset** ( ; : 0) –



```
write="0".
```

```
:
```

```
<Tag name="TA7.ABS_VIBRO_RMS.10-O-Vs" datatype="short" offset="964" scale="0.1"
write="1" default="0" />
```

```
OPC
```

## 4.5

```
CSV - , " CSV.
```

### CSV

```
2017-09-07 00:00:00|1|2|3|99.01|"Test string\\x03"
```

```
2017-09-07 00:00:00
```

```
1
```

```
2
```

```
3
```

```
99.01
```

```
Test string\\x03
```

### type,

```
tab - CSV, ( ASCII 0x09).
```

```
semicolon - CSV,
```

```
pipe - CSV, " ( ASCII 0x7C).
```

```
text -
```

```
:
```

```
<File name="data.csv" type="pipe" readrate="1000" />
```

**OPC (Tags)**

offset,  
 CSV  
 0, : CSV offset  
 , CSV  
 :  
 - ISO YYYY-MM-DD HH:NN:SS.  
 24- , 2017-01-01 23:00:00.  
 99.01  
 - , ASCII 0x20-x7F  
 \x00. "\") . CSV  
 CSV,  
 (boolean) - "1", "Y",  
 "TRUE" ( ).

**5****OPC**

OPC OPC ,  
 System.RAW.OK - ,  
 "true".  
 System.RAW.Name -  
 System.RAW.Path -  
 System.RAW.LastRead -  
 System.Local.Timestamp -  
 System.Active.Clients - OPC

**6**

Windows.

Windows Vista (cmd.exe)

cmd.exe

: fileopcserver.exe /AI

: fileopcserver.exe /R

"File OPC Server Service"

(cmd.exe)

fileopcserver.exe /?

## 7 OPC

fileopcserver.exe /REGSERVER

OPC Windows Vista

### OPC

fileopcserver.exe /UNREGSERVER

## 8

OPC

1. "fileopcserver.exe" "fileopcserver1.exe". , "fileopcserver10.exe".
2. c "fileopcserver.xml" "fileopcserver1.xml".

3. " , " -
4. " OPC OPC " ,

## 9 OPC UA

OPC UA fileopcserverua.exe,  
 "binary" OPC DA , TCP/IP.  
 OPC DA.

```
<Config>
```

```
....
```

```
<OpcUa port="10001" login="root" password="root" discovery="opc.tcp://127.0.0.1:4840" encryption="none" />
```

```
port ( : 10002) – TCP
```

```
login, password ( ; ) –  

  OPC UA
```

```
discovery ( ; ) –  

  LDS (local discovery server) OPC UA
```

```
LDS
```

```
LDS.
```

```
LDS OPC Foundation
```

(<https://github.com/OPCFoundation/UA-LDS>)

```
LDS
```

```
encryption ( ; : 0) –  

  (endpoints) 1,
```

```
"server_key.der" " \CertificateStore\private" "server_cert.der"
```

```
"DER" " \CertificateStore\trusted".
```

## Windows

openssl.

```
openssl genrsa -out ca.key {}

openssl req -x509 -new -nodes -key ca.key -days 3650 -subj "/C=US/O=AGG Software
(www.aggsoft.com)/CN=AGG Software/" -out ca.crt

openssl req -new -newkey rsa:{} -nodes -subj "/C=US/O=AGG Software
(www.aggsoft.com)/CN=FileOpcServer" -keyout localhost.key -out localhost.csr

openssl x509 -req -days 3650 -in localhost.csr -CA ca.crt -CAkey ca.key -
CAcreateserial -out localhost.crt -extfile {} -extensions v3_ca

openssl x509 -in localhost.crt -outform der -out server_cert.der

openssl rsa -inform PEM -in localhost.key -outform DER -out server_key.der
```