



OPC-HTTP Gateway

<b>1</b>		<b>1</b>
<b>2</b>	,	<b>1</b>
1	.....	1
2	.....	2
3	.....	2
4	.....	3
<b>3</b>		<b>3</b>
1	.....	3
2	.....	3
<b>4</b>		<b>4</b>
1	.....	4
2	.....	4
3	.....	5
4 HTTP-	.....	5
5	SSL .....	6
<b>5</b>		<b>7</b>
<b>6 HTTP-</b>		<b>7</b>
1	.....	7
2	.....	8
3	JSON .....	9
4	.....	9
5	.....	10
6	.....	10
7	.....	11
8	.....	12
9	.....	12
10	.....	13
11	.....	14

# 1

HTTP-HTTP(S) , OPC-OPC- (DA1 DA2). OPC-HTTP OPC-

# 2

## 2.1

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1. OPC-HTTP Gateway
- 2.
3. OPC-HTTP Gateway
- 4.
5. OPC-HTTP Gateway  
sales@aggsoft.ru
6. OPC-HTTP Gateway  
OPC-HTTP Gateway
7. **OPC-HTTP Gateway** "AS IS".
- 8.

9. OPC-HTTP Gateway

10. -  
OPC-HTTP Gateway  
OPC-HTTP Gateway.

## 2.2

shareware-

- 21 ;
- ;
- 100 ;

## 2.3

shareware-

Internet,

## 2.4

OPC-HTTP Gateway	<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 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

OPC-HTTP Gateway.

Gateway" , OPC-HTTP Gateway "\Programs Files\OPC-HTTP

## OPC-HTTP Gateway

## 4

## 4.1

opchttpgate.xml  
 opchttpgate.exe.  
 HTTP-

```

:

<Config>
  <Log file="opchttpgate.log" info="1" warning="1" error="1" limit="1000000" />
  <HTTPServer port="80;443" ssl="0" auth="1" staticfilepath="files\" log="1"
logdetailed="0">
    <Users>
      <User login="admin" password="admin" />
      <User login="user" password="user" />
    </Users>
    <AllowedIPs>
      <IP>127.0.0.*</IP>
      <IP>192.168.1.*</IP>
    </AllowedIPs>
  </HTTPServer>
</Config>

```

## 4.2

"Log" XML

```

:

<Log file="opchttpgate.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 HTTP-

"File" XML

HTTP-

```

:
<HTTPServer port="80;443" ssl="0" auth="1" staticfilepath="files\" log="1"
logdetailed="0">

```

**port** ( ; : 80) - TCP-  
.

```

TCP-
(«;»). HTTP-
ssl (
  «1» (
    ),
    «0»,
    443, HTTP-
    SSL.
auth (
  ;
  : 0) -
  «1» (
    ), HTTP-
  «
  »
  (Basic Authentication).
  Users
  «
  ».
staticfilepath (
  ;
  : files\ ) -
  GET.
log (
  «1» (
    ), HTTP-
  ;
  : 1) -
logdetailed -
  «1» (
    ), HTTP-

```

### (Users)

```

:
<User login="admin" password="admin" />

```

### IP- (AllowedIPs)

```

IP-
IP-
IP-
:
192.168.1.* -
IP-
192.168.1.0
192.168.1.255
«?» «*».

```

## 4.5

### SSL

```

HTTP-
SSL
SSL,
01ServerCert.pem -
01ServerKey.pem -

```



127.0.0.1.

OpenSSL.

SSL

## 5

Windows.

(cmd.exe)

Windows Vista

cmd.

exe

: fileopcserver.exe /AI

: fileopcserver.exe /R

"File OPC Server Service"

" "

(cmd.exe)

fileopcserver.exe /?

## 6 HTTP-

### 6.1

1. HTTP- GET POST.
2. POST: «application/x-www-form-urlencoded».
3. POST «Post Data», POST, HTTP-

4. HTTP-JSON  
Content-Type «application/json; charset=utf-8».
5. ( , - ).
6. HTTP- 400 (Bad Request - ).
7. HTTP- 403 (Access Denied - ).

## 6.2

(write)

13	
1	Null ( )
2	Smallint ( )
3	Integer ( )
4	Single ( )
5	Double ( )
6	
7	
8	
11	
16	ShortInt ( )
17	
18	
19	
20	Int64
21	Word64

## 6.3 JSON

```

success -           «           » «           »;
processed -         ,           data,
data -
  name -           OPC           OPC-
  group -           OPC.
  value -           OPC.
  data_type -           ( . value ).
  quality -           OPC.
  timestamp -
  clsid -           OPC-
  desc -           OPC-

```

## 6.4

```

           OPC-
: get-servers.json
:
host (           ,           ) - IP-
HTTP-
:
http://127.0.0.1/get-servers.json?host=192.168.1.180
http://127.0.0.1/get-servers.json
:
{"success": true, "processed": 1, "data":
[{"name": "opcserverim.Instance.1", "desc": "Demo server", "clsid": "{0a9db5fd-
4ca5-4611-84fb-3f5b75692fa9}", }]}

```

## 6.5

```

        OPC-
        : get-tag-tree.json
        :
server ( , ) - OPC-
host ( , ) - IP- OPC-
:
http://127.0.0.1/get-tag-tree.json?server=opcserverim.Instance.1
:
{"success": true, "data":
[{"name": "Channel1.Device1.Tag1", "data_type": 8},
{"name": "Channel1.Device1.Tag2", "data_type": 3},
{"name": "Channel1.Device1.Tag3", "data_type": 3},
{"name": "Channel2.Device1.Tag1", "data_type": 3}]}

```

## 6.6

```

( 100 OPC- 1000 OPC- )
OPC
:
: subscribe.json
:
server ( , ) - OPC-
host ( , ) - IP- OPC-
group ( OPC- OPC- ) -
tag ( , ) - ( ) OPC-
Get Tag Tree.
« » («|»).
:

```

http://127.0.0.1/subscribe.json?server=opcserverim.Instance.1&group=MyGroup1&tag= Channel1.  
Device1.Tag1|Channel1.Device1.Tag2

:

```
{"success": true, "processed": 1}
```

```
{"success": false, "processed": 0}
```

## 6.7

```

HTTP-
OPC-
: unsubscribe.json
:
server (
,
) - OPC-
host (
,
) - IP- OPC-
group (
,
) -
tag,
group «*»,
tag (
,
) - (
group.
).
:

```

http://127.0.0.1/unsubscribe.json?server=opcserverim.Instance.1&tag=Channel1.Device1.Tag1|  
Channel1.Device1.Tag2

http://127.0.0.1/unsubscribe.json?server=opcserverim.Instance.1&group=MyGroup

http://127.0.0.1/unsubscribe.json?server=opcserverim.Instance.1&group=\*

:

```
{"success": true, "processed": 1}
```

```
{"success": false, "processed": 0}
```

## 6.8

```

: list-subscribed.json
:
server ( , ) - OPC-
host ( , ) - IP- OPC-
group ( , ) -
group «*»,
:
http://127.0.0.1/list-subscribed.json?server=opcserver.sim.Instance.1&group=*
:
{"success": true, "data":
[{"name": "Channel1.Device1.Tag1", "group": "MyGroup"},
{"name": "Channel1.Device1.Tag2", "group": "MyGroup"},
{"name": "Channel1.Device1.Tag3", "group": "MyGroup"}]}

```

## 6.9

```

OPC , OPC HTTP- OPC-
, , HTTP-
: read.json
:
server ( , ) - OPC-
host ( , ) - IP- OPC-
group ( , ) -
tag,
group «*»,
tag ( , ) - ( . ).

```

group.

:

<http://127.0.0.1/read.json?server=opcserver.sim.Instance.1&tag=Channel1.Device1.Tag1>

:

```
{ "success": true, "processed": 1,
  "data": [ { "name": "Channel1.Device1.Tag1", "group": "MyGroup",
             "value": "123", "quality": "0xC0", "timestamp": "2016-10-27 06:23:24",
             "data_type": 8 } ] }
```

## 6.10

OPC

OPC-

: write.json

:

**server** ( , ) - OPC-

**host** ( , ) - IP- OPC-

**group** ( , ) -

**tag** ( , ) - OPC.

**value** ( , ) -

**data\_type** ( , ) -

:

[http://127.0.0.1/write.json?server=opcserver.sim.Instance.1&group=MyGroup&tag=Channel1.Device1.Tag1&value=321&data\\_type=8](http://127.0.0.1/write.json?server=opcserver.sim.Instance.1&group=MyGroup&tag=Channel1.Device1.Tag1&value=321&data_type=8)

:

```
{ "success": true, "processed": 1 }
```

## 6.11

jQuery  
demo.html

«files»

URL- :

<http://127.0.0.1/demo.html>