

Setting up encrypted tunnel to EXANTE using stunnel



Version 1.3



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Basic information

EXANTE FIX connection is encrypted and requires encryption software installed on the client side. Stunnel is a program that allows the client to establish secure encrypted connection between his computer and EXANTE servers.

In order to set up the software on his side, the client needs to install Stunnel (or similar software) on the client side. Stunnel is an open-source program used to provide universal TLS/SSL tunneling service. Client will need Stunnel to maintain the connection. Stunnel can be downloaded [here](#).

Setting up stunnel

After the installation, the client needs to copy the sample stunnel config provided by EXANTE (can be found below or in CRM) into the stunnel installation folder, into the file called stunnel.conf. The first line (CAfile) should contain the correct path to the CA file.

Here's an example of that line for Windows platform:

```
1 CAfile = C:\Program Files (x86)\stunnel\EXANTEca.crt
```

The file name and path can be different on the client's system.

After that, the client should be ready to run stunnel and connect to port specified in his stunnel.conf file with his FIX-engine.

If you unable to establish secure connection, you can check if any software already uses mapped port and change configuration of stunnel/software:

1)*Windows:*

Start>>All Programs>>Accessories>>System Tools>>Resource Monitor

2)*Linux:*

```
# netstat -tulpn
```

3)*MacOs:*

```
#lsof -n -i4TCP:$PORT | grep LISTEN # Verified on macOS Sierra
```

```
#lsof -n -iTCP:$PORT | grep LISTEN
```

```
#lsof -n -i:$PORT | grep LISTEN
```

This methods allows client to determine port-blocking software.

While configuring stunnel.conf note, that on EXANTE's side ports 27000 and 27001 always mapped to FEED and TRADE sessions respectively.

Stunnel sample config

Here is the sample config file for stunnel. Please pay attention that ciphers (line 9) should be listed in a single line. Also you can download example configuration from your [client-area](#).

```
1 CAfile = ca.crt
2
3 verify = 2
4
5 sslVersion = all
6 options = NO_SSLv2
7 options = NO_SSLv3
8
9 ciphers =
ECDHE-RSA-AES256-GCM-SHA384:ECDSA-AES256-GCM-SHA384:DHE-DSS-AES256-GCM-S
HA384:DHE-RSA-AES256-GCM-SHA384:ECDH-RSA-AES256-GCM-SHA384:ECDH-ECDSA-AES256-G
CM-SHA384:AES256-GCM-SHA384:DHE-RSA-AES256-SHA:DHE-DSS-AES256-SHA:AES256-SHA
10
11 socket = l:TCP_NODELAY=1
12 socket = r:TCP_NODELAY=1
13
14 ;compression = zlib
15
16 debug = 7
17
18 [FEED_FIX_BRIDGE]
19 client = yes
20 accept = 127.0.0.1:8100
21 connect = fixprodeu.exante.eu:27000
22
23 [BROKER_FIX_BRIDGE]
24 client = yes
25 accept = 127.0.0.1:8101
26 connect = fixprodeu.exante.eu:27001
```