

# FIREPROBE

WEB PLATFORM OVERVIEW v.1.5.0

## APPLICATION INTERFACE

Start view and server selection options:

### FIREPROBE



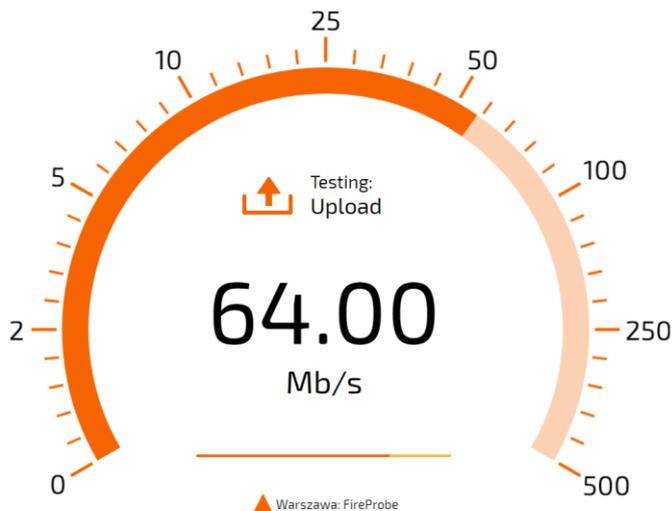
▲ Warszawa: FireProbe  
IP: 123.234.111.12  
provider: Provider name

### FIREPROBE

#### SELECT SERVER

▲ FireProbe Warszawa	17 ms
▲ FireProbe Warszawa	15 ms
▲ FireProbe Warszawa	16 ms
▲ FireProbe Warszawa	10 ms
▲ FireProbe Warszawa	11 ms

Test progress view:



### FIREPROBE



provider: Provider name  
powered by: FIREPROBE.NET

Summary view:

 WEB BROWSING: 5/5  
 VIDEO STREAMING (LQ): 5/5  
 VIDEO STREAMING (HQ): 5/5  
 CALLS (SKYPE, WHATSAPP): 5/5  
 ON-LINE GAMES: 5/5

**RESTART**

▲ Warszawa: FireProbe

# FIREPROBE

Download: **615.89 Mb/s**      Upload: **61.13 Mb/s**



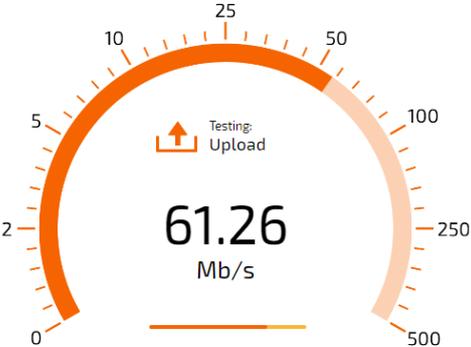
Ping: **10 ms**      Jitter: **0 ms**

provider: Provider name

powered by: FIREPROBE.NET

Mobile view:

## FIREPROBE



Testing: Upload  
**61.26 Mb/s**

▲ Warszawa: FireProbe

Ping: **9 ms**      Download: **615.35 Mb/s**      Upload: **61.26 Mb/s**

Jitter: **0 ms**

provider: Provider name  
powered by: FIREPROBE.NET

## FIREPROBE

Ping: **9 ms**      Download: **615.35 Mb/s**      Upload: **62.05 Mb/s**

Jitter: **0 ms**

 WEB BROWSING: 5/5  
 VIDEO STREAMING (LQ): 5/5  
 VIDEO STREAMING (HQ): 5/5  
 CALLS (SKYPE, WHATSAPP): 5/5  
 ON-LINE GAMES: 5/5

**RESTART**

▲ Warszawa: FireProbe

provider: Provider name  
powered by: FIREPROBE.NET

## USER INTERFACE



FIREPROBE is a platform designed for Internet providers to help maintaining and improving their core / radio networks using measurements data. FIREPROBE web application interface is created using RWD (*Responsive Web Design*) rules.



FIREPROBE user interface allows to manage all application settings in real-time:

No	App ID	App type	SSL	Active	Options
1	alpha	HTML5 for browsers	✘	✔	run config remove
2	dev	HTML5 for browsers	✘	✔	run config remove
3	pl	HTML5 for browsers	✘	✔	run config remove

The following application settings are available when select “config” option:

### App embedding

Copy/paste below code to your website HTML:

```
<iframe scrolling="no" src="http://dev.fireprobe.net/" style="width: 90vw; height: 90vh; overflow: hidden; border: none;"></iframe>
```

Embed the application to any website using given HTML code.

### App Interface

Custom colors - text:  background:  main:  light:  list/track:

Customize application interface colors. There is of course option to create totally custom graphics template and app engine.

## App translation

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FIREPROBE Speed Test
Test your Internet connection speed using this accurate tool from FireProbe.net platform.
START
Searching for best server...
Autoselect
Multi-location
IP
provider
Testing
Download
Upload
Ping
Jitter
RESTART
SHARE
APPROVE
SELECT SERVER
NO SERVERS
WEB BROWSING
VIDEO STREAMING (LQ)
VIDEO STREAMING (HQ)
CALLS (SKYPE, WHATSAPP)
ON-LINE GAMES

Customize translation of most strings visible in the application.

## Your company brand

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Logo target URL

eg. <http://yoursite.com>

Logo Image (will be auto-adjusted to 500x150 px)  Nie wybrano pliku

# FIREPROBE

Add your company brand and link to your website to be visible in application interface.

## SSL (https)

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- Enable SSL (https) support

Enable SSL (https) support for embedding application on https websites. This requires SSL mode to be enabled for each reference server used in the application. This also may introduce negative impact for higher bandwidth measurements due to SSL overhead.

## Custom URL for test result posting

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get example script: [post\\_handler.php](#)

- redirect to this URL

Enable real-time test result posting to external URL with redirect option after test finish. The posting variables and integrity control method is described in *post\_handler.php* script. The redirection to external URL may be usable when user need to show custom content depending on the test result.

## Server options

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Source:  FIREPROBE servers  My Servers

Sorting:  Best ping  IP geolocation

Multi-location:

Use FIREPROBE reference servers infrastructure or add your custom server. See “My Servers”. Sort server list by best ping or according to client-server IP geolocation distance. Multi-location option defines to how many first servers from the sorted list the test is performed.

## Connection options

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- Auto select (recommended)  WebSocket  Optimized HTTP  Optimized HTTP v.2

FIREPROBE uses WebSocket protocol for Windows desktop browsers and Optimized HTTP for the rest (e.g. MAC OS, mobile, linux). This is due to non-full compatibility of these browsers with RFC 6455. Using this option, you can force specified connection method.

## Service Mode

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- enable Service Mode

Service Mode is dedicated for typical Internet access hardware installation scenario which is performed by technical staff. Simply the test results are not posted anywhere until the “APPROVE” button is pressed after test. The custom variable condition may be defined. See examples:

**serviceld** – the custom variable **serviceld** must be set (no matter what it contains)  
**serviceld, part=installation** – as above plus custom variable **part** must contain exactly **installation** string

### Custom variables

It is possible to pass up to 10 custom variables to the application using query string. Just execute application URL with the proper query:

<http://appid.fireprobe.net/?variable1=value1&variable2=value2&...>

where **appid** contains app identification string. The variable and value string length must be shorter or equal than 32.

All the custom variables are posted with test results to the FIREPROBE gateway and to the custom post URL in real time as JSON formatted string. They are also available in records while exporting results to CSV file.



FIREPROBE user interface allows to manage reference servers settings in real-time:

No	Name	Country	City	App	TCP	TLS	Active	CPU	Net	Alive	Version	Options
1				all	✓	✓	✓	0 %	0 %	17 s	214	edit assign ip remove
2				all	✓	✓	✓	0 %	0 %	41 s	214	edit assign ip remove
3				all	✓	✓	✓	0 %	0 %	16 s	214	edit assign ip remove
4				all	✓	✓	✓	4 %	6 %	30 s	214	edit assign ip remove
5				all	✓	✓	✓	11 %	3 %	60 s	214	edit assign ip remove
6				all	✓	✓	✓	3 %	4 %	6 s	214	edit assign ip remove
7				all	✓	✓	✓	2 %	5 %	44 s	214	edit assign ip remove
8				all	✓	✓	✓	6 %	10 %	24 s	214	edit assign ip remove
9				all	✓	✓	✓	3 %	8 %	29 s	214	edit assign ip remove
10				all	✓	✓	✓	0 %	0 %	53 s	214	edit assign ip remove
11				all	✓	✓	✓	0 %	2 %	6 s	214	edit assign ip remove
12				all	✓	✓	✓	3 %	8 %	41 s	214	edit assign ip remove
13				all	✓	✓	✓	6 %	10 %	7 s	214	edit assign ip remove
14				all	✓	✓	✓	4 %	8 %	40 s	214	edit assign ip remove
15				all	✓	✓	✓	5 %	8 %	14 s	214	edit assign ip remove

User's own server can be added according to the detailed instructions and its settings can be managed:

### Server stats

Name	Value
Last report	2019-08-26 10:18:43 (57 s)
Network load	0 %
CPU load	1 %
Current uplink	0.32 Mb/s
Current downlink	0.01 Mb/s
Report interval	60 s

### Server software setup

#### 1. Hardware/OS requirements

- Bare-metal or virtual modern Linux server (e.g Debian, CentOS)
- Min. 2 GB of RAM, Min. 2 CPU core
- Min. 1 Gb/s Internet connection
- Python 3.4+ (versions 3.2 and 3.3 have limited support)
- Python 3 OpenSSL (pyOpenSSL)
- current OpenSSL

#### 2. TCP Server setup

Make and enter some directory in Linux system. Then execute the commands:

```
wget http://www.fireprobe.net/install.sh
chmod +x install.sh
./install.sh
```

This will download and unpack [tar.gz package](#) and start the server on default ports (TCP: 9113, 9114). If you need to change the ports or enable IPv6 - feel free to edit `fireprobe.sh` file and then restart service using command:

```
./fireprobe.sh restart
```

#### 3. Server stats reporting

To better manage your servers, FIREPROBE collects their stats (link speed, link load, cpu load) in 60 seconds interval. To enable this feature, edit `fireprobe.sh` file and set the following variables for this server:

```
SERVERID=""
SERVERKEY=""
```

Then restart the service using command:

```
./fireprobe.sh restart
```

#### 4. Final notes

Your server will be checked every 5 minutes. You can see the status in the server list.

### Server credentials

Server ID

Server key

Server domain in FIREPROBE infrastructure

### Server configuration

Server Name (any string)

App

Link speed [Mb/s]

Host name

IPv4 address

IPv6 address (optional)

TCP port (default: 9113)



TCP TLS port (default: 9114)



Country

City

Longitude

Latitude

E-mail for notifications (leave blank for default)

Monitoring notifications

Active

[Update & check Server](#)

When “assign IP” option for server is used, the selection of this server will be suggested on server list in application interface for specified client IPv4 source public address:

IPv4 class (CIDR format)

83.14.171.204/24

Network type:

Fixed: aDSL

App:

All

Active

Additionally, FIREPROBE checks every server state in 5 minutes intervals. If the state is changed, the default or specified per server e-mail address is used for receiving notifications. If the server is in a down state in the platform, it can't be shown on the server list.



Every test result is stored in FIREPROBE database. Result list can be viewed and exported to CSV file separately for every user application:

Test count: 79 ([get stats in CSV format](#))

No	Date, time	Country	City	Isp	DL [Mb/s]	UL [Mb/s]	LT [ms]	Jitter [ms]
1	2018-01-17 22:58:01	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	43.18	5.50	23	0
2	2018-01-17 22:56:27	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	28.73	3.30	20	0
3	2018-01-17 22:53:48	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	37.08	3.60	21	0
4	2018-01-17 22:52:40	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	34.90	3.08	23	0
5	2018-01-17 22:52:16	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	34.08	3.27	21	0
6	2018-01-17 22:51:51	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	32.46	4.06	20	0
7	2018-01-17 22:51:26	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	37.44	4.88	24	0
8	2018-01-17 22:51:03	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	35.44	2.89	22	0
9	2018-01-17 22:50:43	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	29.00	4.36	22	0
10	2018-01-17 22:50:21	PL	Jelenia Góra	Telefonia Dialog sp.z.o.o.	37.07	3.81	22	0



Account information can be updated by user.