



e-VPN

CUSTOMER VPN MANAGER

Contents

Description

Registration

Access

VPN server creating and switching on

Client creating

User client setting and connection

Device client setting and connection

List of devices connected to a Device client

List of devices connected to all Device clients

Connection to a network device

Description

e-VPN is the solution that allows to independently create and manage a reserved virtual local network (VPN) specifically realized, on a public infrastructure, in order to reach the Rocom 4GRouter gateways and all the devices connected to them as if they belonged to a single LAN, even if located anywhere in the world.


The connection is encrypted to ensure secure transmission of sensitive data and prevent unauthorised persons from intercepting data traffic.

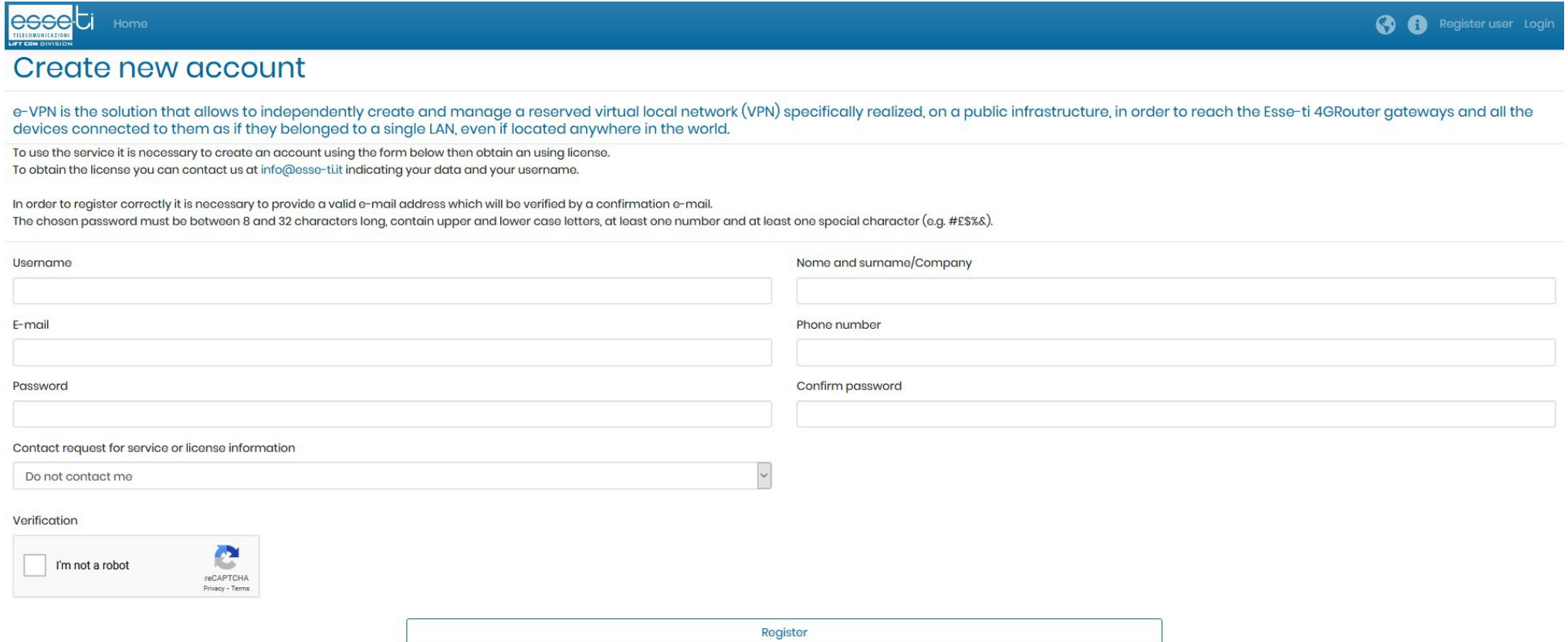
SIM cards used in 4Grouter gateways must be enabled for voice/SMS/data traffic, but neither a static public IP address nor a DDNS service associated with the public IP address is required.

Registration

1. Open your Internet browser and enter in the address bar:

https://e-vpn.esse-ti.it

2. Click on *Language* button  at the top right of your screen to change language
3. Click on *Register user* at the top right of your screen

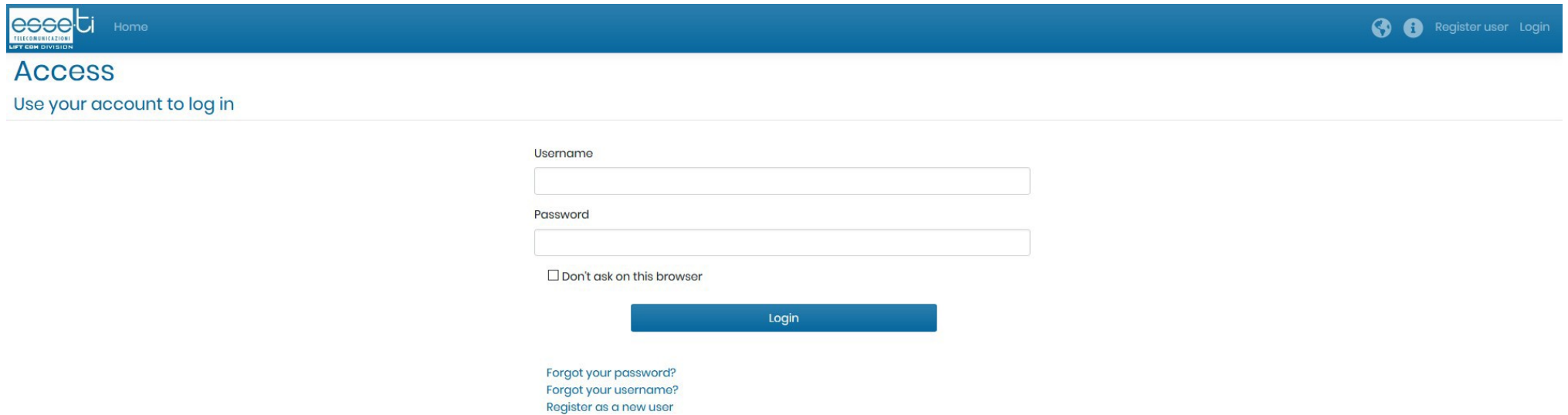


The screenshot shows the registration page for Esse-ti. At the top, there is a blue navigation bar with the Esse-ti logo, a 'Home' link, and 'Register user' and 'Login' links. Below the navigation bar, the main heading is 'Create new account'. The page contains several text input fields for registration: 'Username', 'E-mail', 'Password', 'Nome and surname/Company', 'Phone number', and 'Confirm password'. There is also a dropdown menu for 'Contact request for service or license information' with the option 'Do not contact me'. A reCAPTCHA verification box is present, with the text 'I'm not a robot' and a checkbox. At the bottom of the form, there is a large 'Register' button.

4. Fill in all mandatory fields
5. Click on the *Register* button
6. Confirm the e-mail address provided by clicking on the link received by e-mail

Access

1. Click on *Login* at the top right of your screen



The screenshot shows the login interface for eeeeti. At the top left is the eeeeti logo with 'LIFT.COM DIVISION' below it and a 'Home' link. At the top right are icons for a globe, user information, and links for 'Register user' and 'Login'. The main heading is 'Access' with the subtext 'Use your account to log in'. The login form includes a 'Username' field, a 'Password' field, a checkbox for 'Don't ask on this browser', and a blue 'Login' button. Below the button are links for 'Forgot your password?', 'Forgot your username?', and 'Register as a new user'.

2. Enter username and password
3. Click on the *Login* button


Licence

To use the service offered by e-VPN you must obtain a valid licence:

1. Contact the support service for licence activation.

VPN server creating and switching on

Creating

1. Click on *My server* button  at the top right of your screen
2. Click on the *Create server* button



The screenshot shows the 'Create new server' page in the eeseti portal. The header includes the eeseti logo, 'Home', and user information 'John_Smith Logout'. The main heading is 'Create new server'. Below it, a blue banner contains the instruction: 'To create a new server you need to specify the type of IP classes to be used in the remote devices and the number of IPs to reserve for each device.' The form has two dropdown menus: 'IP class type' with '10.10.x.x' selected, and 'Slot size' with '32 IP addresses (30 usable)' selected. At the bottom are 'Cancel' and 'Create server' buttons.

3. In the *IP class type* select the IP class to be used in VPN clients (device or remote user connected to the VPN server)
note: it is recommended to choose a different class from your own class to avoid routing conflicts
4. In the *Slot size* menu, select the number of IPs to be reserved for each VPN client
e.g. in the case of the 4GRouter, it corresponds to the number of IPs that the 4GRouter can assign to the devices connected to its network
5. Click on the *Create server* button



The screenshot shows the 'My VPN server' page in the eeseti portal. The header includes the eeseti logo, 'Home', and user information 'John_Smith Logout'. The main heading is 'My VPN server'. Below it, a blue banner contains the text 'VPN server information'. A table displays the server details:

Available IP range	10.100.0.0/10.100.255.255
Slot size	16
Clients	2
Assigned VPN slot	5
Status	Running

At the bottom are 'Switch off' and 'Delete VPN server' buttons.


Switching on

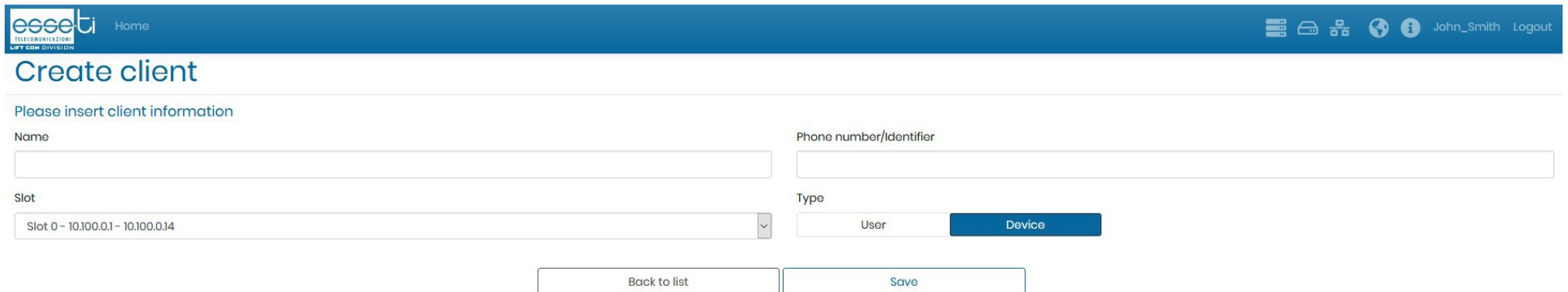
1. Click on the *Switch on* button to start the VPN server

Client creating

Two types of client can be connected to the network created by the VPN server:

- Device: 4GRouter gateway
- User: client that can access the 4GRouter gateways and their networks, but cannot access other Users

1. Click on the *Clients* button  at the top right of your screen
2. Click on the *Add new client* button



easeti Home

Home

Create client

Please insert client information

Name

Phone number/Identifier

Slot


Type

3. Enter the name to be associated with the client
4. Enter the telephone number of the SIM card used in the 4GRouter or an identifier to be associated with the User client
5. Select the IP range to be assigned to the client
6. Select the type of client (User or Device)
7. Click on the *Save* button
8. Repeat the procedure for each client to be connected

User client setting and connection


To connect a User client to the VPN server you must use OpenVPN.

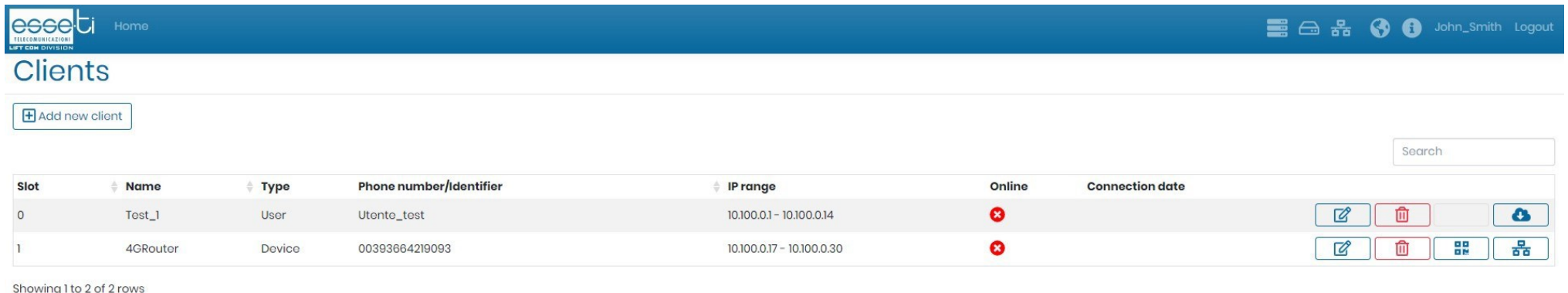
OpenVPN is an open source VPN software, released under the GPL licence, which allows to create secure point-to-point encrypted tunnels between two computers on an insecure network (in this case between the user's PC and the VPN server).

1. If you do not have OpenVPN, click on the *Info* button 
2. Click on *Download OpenVPN*
3. Download the OpenVPN installation package for your operating system
4. Install OpenVPN following the wizard


Once the installation is complete, the *OpenVPN Connect* icon  is displayed in the system tray notification area.


Setting

1. To configure a User client, click on the *Clients* button 



Slot	Name	Type	Phone number/Identifier	IP range	Online	Connection date
0	Test_1	User	Utento_test	10.100.0.1 - 10.100.0.14	✘	
1	4GRouter	Device	00393664219093	10.100.0.17 - 10.100.0.30	✘	

2. Click on the *Download* button  on the right in the row of the client to be configured, to download an OpenVPN configuration file already pre-prepared for the client: *client_name.ovpn*

3. Double-click on the *OpenVPN Connect* icon  displayed in the system tray notification area
note: the first time OpenVPNConnection is started a number of information screens are displayed and it is necessary to accept some warnings in order to proceed
4. Click on *FILE* in the *Import Profile* screen of OpenVPN Connect

5. Drag and drop the OpenVPN configuration file (client_name.ovpn) into the dotted box
6. Click on *Add* at the top right of the OpenVPN Connect screen

Connection

To start the connection between a User client and the VPN server:

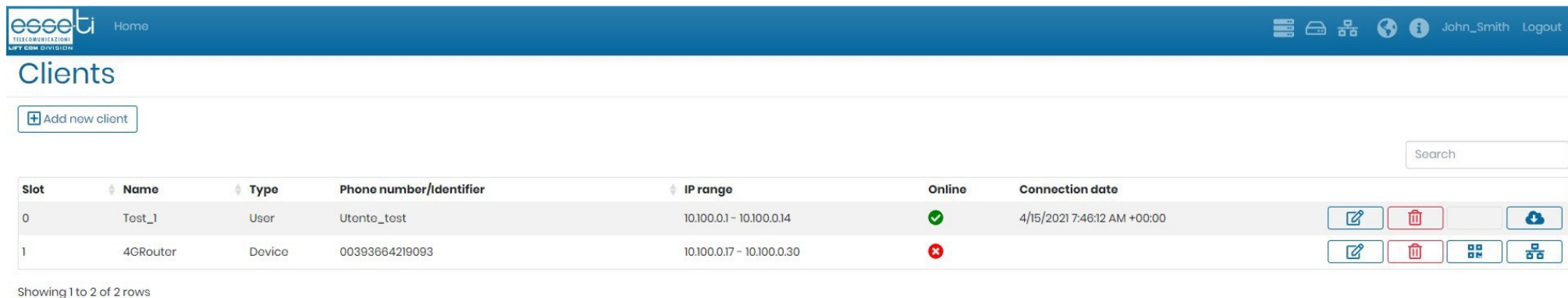
1. Right-click on the OpenVPN Connect icon  displayed in the system tray notification area
2. Click on *Connect*

note: in the case of more profiles, select the desired one

After successful connection, a notification message is displayed in the system tray notification area.

3. Press the *F5* key on your keyboard to refresh the browser page.

In the client row, a green circle with a tick indicates the connection in progress.



Slot	Name	Type	Phone number/identifier	IP range	Online	Connection date
0	Test_1	User	Utente_test	10.100.0.1 - 10.100.0.14	✓	4/15/2021 7:46:12 AM +00:00
1	4GRouter	Device	00393664219093	10.100.0.17 - 10.100.0.30	✗	

Disconnection

To stop the connection between a User client and the VPN server:

1. Right-click on the OpenVPN Connect icon  displayed in the system tray notification area
2. Click on *Disconnect*

After disconnection, a notification message is displayed in the system tray notification area.

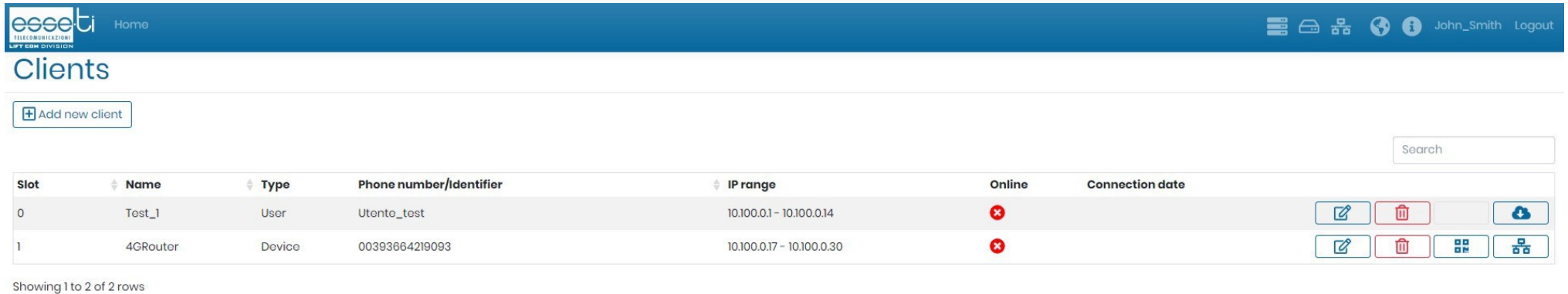
3. Press the *F5* key on your keyboard to refresh the browser page.








In the client row, a red circle with an x indicates the absence of a connection.

Device client setting and connection


To connect a Device client (4GRouter) to the VPN server you must send a configuration SMS to the 4GRouter.

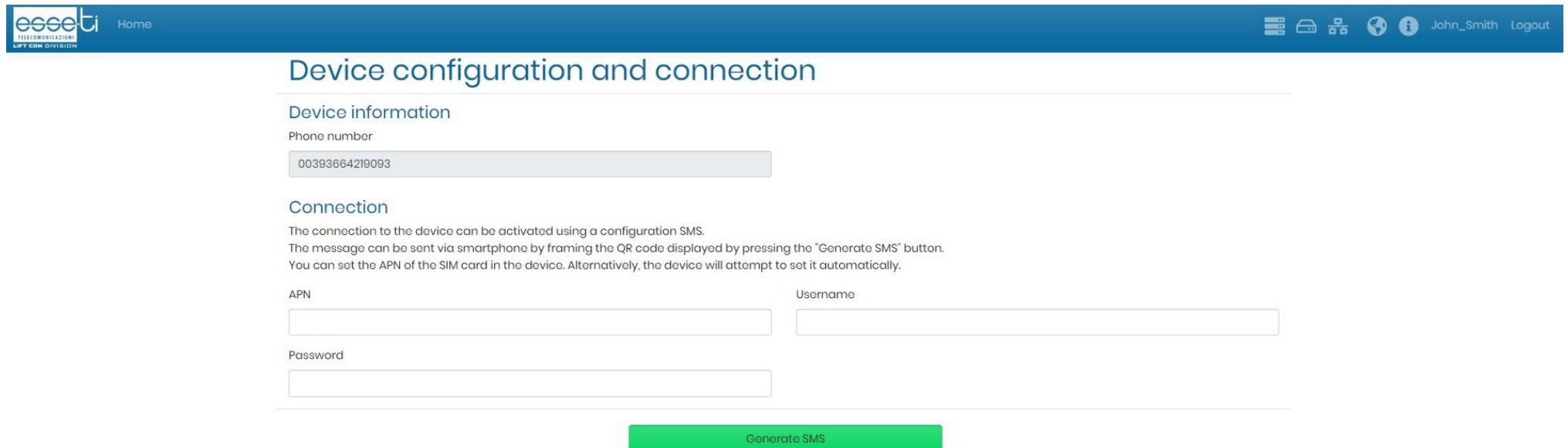
1. Click on the *Clients* button 



Slot	Name	Type	Phone number/Identifier	IP range	Online	Connection date	
0	Test_1	User	Utente_test	10.100.0.1 - 10.100.0.14	✘		  
1	4GRouter	Device	00393664219093	10.100.0.17 - 10.100.0.30	✘		   

Showing 1 to 2 of 2 rows

2. Click on the *Configure* button , on the right in the row of the client to be configured



Device configuration and connection

Device information

Phone number

Connection

The connection to the device can be activated using a configuration SMS.
The message can be sent via smartphone by framing the QR code displayed by pressing the "Generate SMS" button.
You can set the APN of the SIM card in the device. Alternatively, the device will attempt to set it automatically.

APN

Username

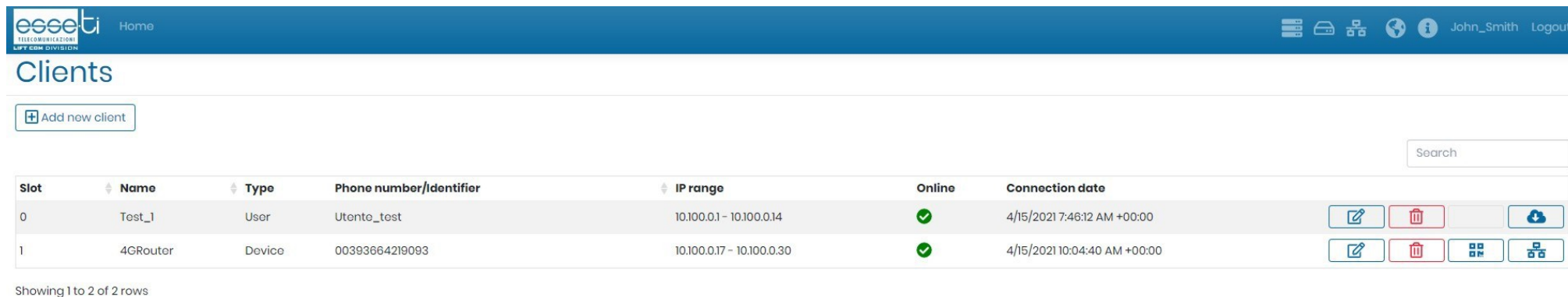
Password

3. Enter the APN of the SIM card used in the 4GRouter (alternatively the 4GRouter will attempt to set it automatically)
4. Enter APN username and password, if any
5. Click on the *Generate SMS* button to generate QR code containing 4GRouter configuration










6. Scan the QR code with the camera of a smartphone or tablet using a dedicated app
7. Send the created SMS to the 4GRouter
8. Wait for the SMS notification of successful configuration, sent by 4GRouter: "EVPN starting"

- Click on the *Close* button
 - Press the *F5* key on your keyboard to refresh the browser page
- In the client row, a green circle with a tick indicates the connection in progress.



The screenshot shows the 'esseti' VPN management interface. The header includes the logo, 'Home', and user information 'John_Smith Logout'. The main section is titled 'Clients' and features an 'Add new client' button and a search bar. A table lists two clients:

Slot	Name	Type	Phone number/Identifier	IP range	Online	Connection date	
0	Test_1	User	Utente_test	10.100.0.1 - 10.100.0.14	✓	4/15/2021 7:46:12 AM +00:00	  
1	4GRouter	Device	00393664219093	10.100.0.17 - 10.100.0.30	✓	4/15/2021 10:04:40 AM +00:00	   

Showing 1 to 2 of 2 rows

Note: the IP address assigned to the 4GRouter is the first in the range available (eg. with a range 10.100.0.17 – 10.100.0.30, the IP address assigned to the 4GRouter is 10.100.0.17).

Note: a consumption of 100 MB per month is required to keep the connection between 4GRouter and the VPN server always active.

Disconnection

To stop the connection between a Device client (4GRouter) and the VPN server:

1. Click on the *Configure* button , on the right in the row of the client

Disconnection

The connection with the device can be deactivated using an SMS message.

Request of SMS notification of executed operation

No

Yes

Generate SMS

Back to list

2. In the *Disconnection* section, select *Yes* if you wish to receive an SMS notification of the disconnection
3. Click on the *Generate SMS* button to generate the QR code containing the disconnection command
4. Scan the QR code with the camera of a smartphone or tablet using a dedicated app
5. Send the created SMS to the 4GRouter
6. Wait for the SMS notification of disconnection, if any: "EVPN stopping"
7. Click on the *Close* button
8. Press the *F5* key on your keyboard to refresh the browser page

In the client row, a red circle with an x indicates the absence of a connection.

List of devices connected to a Device client

To check the list of devices connected to the network of a Device client (4GRouter):

1. Click on the *Details* button , on the right in the row of the client

Client details

VPN client

Name	4GRouter	Phone number	00393664219093
Type	Device	IP	10.100.0.16
Connected devices	1		

Connected devices

MAC	Name	Vendor	IP	Lease time	Lease expire	Lease expired	
000b82dd5c2f	*	Grandstream Networks, Inc.	10.100.0.21	7200	4/15/2021 2:01:59 PM +00:00	No	Port scan
68a3c4ad8de2	DESKTOP-KPPT4AU	Liteon Technology Corporation	10.100.0.20	7200	4/14/2021 4:40:42 PM +00:00 	Yes	Port scan
8cf5a3104ab3	Samsung-Galaxy-S7	SAMSUNG ELECTRO-MECHANICS(THAILAND)	10.100.0.29	7200	4/15/2021 12:34:49 PM +00:00	Yes	Port scan

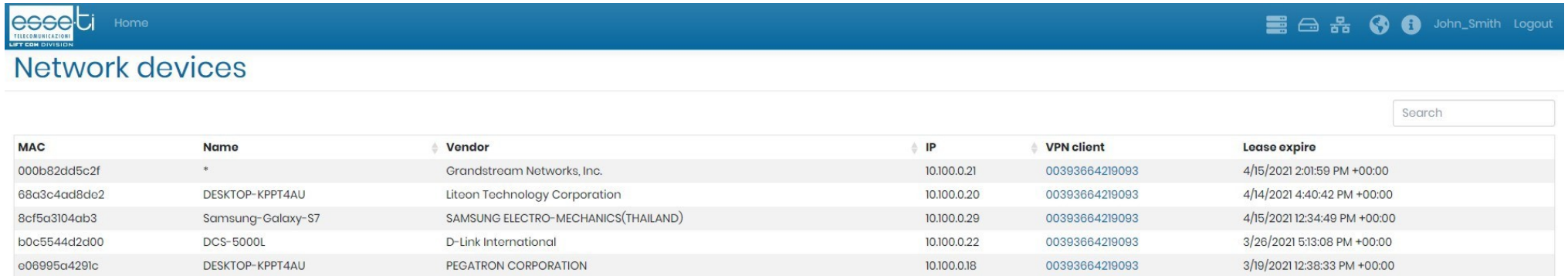
Showing 1 to 3 of 3 rows

[Back to list](#)

List of device connected to all Device clients

To check the list of all devices connected to the networks of all Device clients (4GRouter):

1. Click on the *Network devices* button , at the top right of your screen



MAC	Name	Vendor	IP	VPN client	Lease expire
000b82dd5c2f	*	Grandstream Networks, Inc.	10.100.0.21	00393664219093	4/15/2021 2:01:59 PM +00:00
68a3c4ad8do2	DESKTOP-KPPT4AU	Liteon Technology Corporation	10.100.0.20	00393664219093	4/14/2021 4:40:42 PM +00:00
8cf5a3104ab3	Samsung-Galaxy-S7	SAMSUNG ELECTRO-MECHANICS(THAILAND)	10.100.0.29	00393664219093	4/15/2021 12:34:49 PM +00:00
b0c5544d2d00	DCS-5000L	D-Link International	10.100.0.22	00393664219093	3/26/2021 5:13:08 PM +00:00
e06995a4291c	DESKTOP-KPPT4AU	PEGATRON CORPORATION	10.100.0.18	00393664219093	3/19/2021 12:38:33 PM +00:00

Showing 1 to 5 of 5 rows

Connection to a network device

To establish a connection with a device connected to the network of a Device client (4GRouter):

1. Open the browser of a User client and enter the IP address associated with the device to be reached.



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