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HotSpot Section Management

Wi-Fi HotSpot is a system that provides public internet access after user authorization and identification via a phone number or SMS.

User Authorization Process:

1. The user (not yet a subscriber) connects to the public Wi-Fi hotspot.
2. The DHCP server assigns them an internal IP address, and the system triggers internet blocking through the "Whitelist" service, which restricts access to everything except the authorization page. Connection speed limitations are also applied.
3. The client's device automatically redirects to the authorization page, where they need to enter their phone number and choose a verification method—via SMS or a call to the provided number.
4. After authorization, depending on the agreement terms, the system removes the restrictive policing and the "Whitelist" service.

If DPI is used, a subscriber profile is created with a login (phone number) and assigned IP. The profile becomes active, granting the subscriber internet access with the necessary policies and services. When the "Session Lifetime" parameter expires, deauthorization occurs. DPI removes all services and policing, deletes the "login-IP" link, and reactivates the "Whitelist" service with access restrictions, requiring the subscriber to reauthorize.

If a billing system is used, it receives a request with the IP and phone number, then applies settings according to the billing parameters and timeouts.

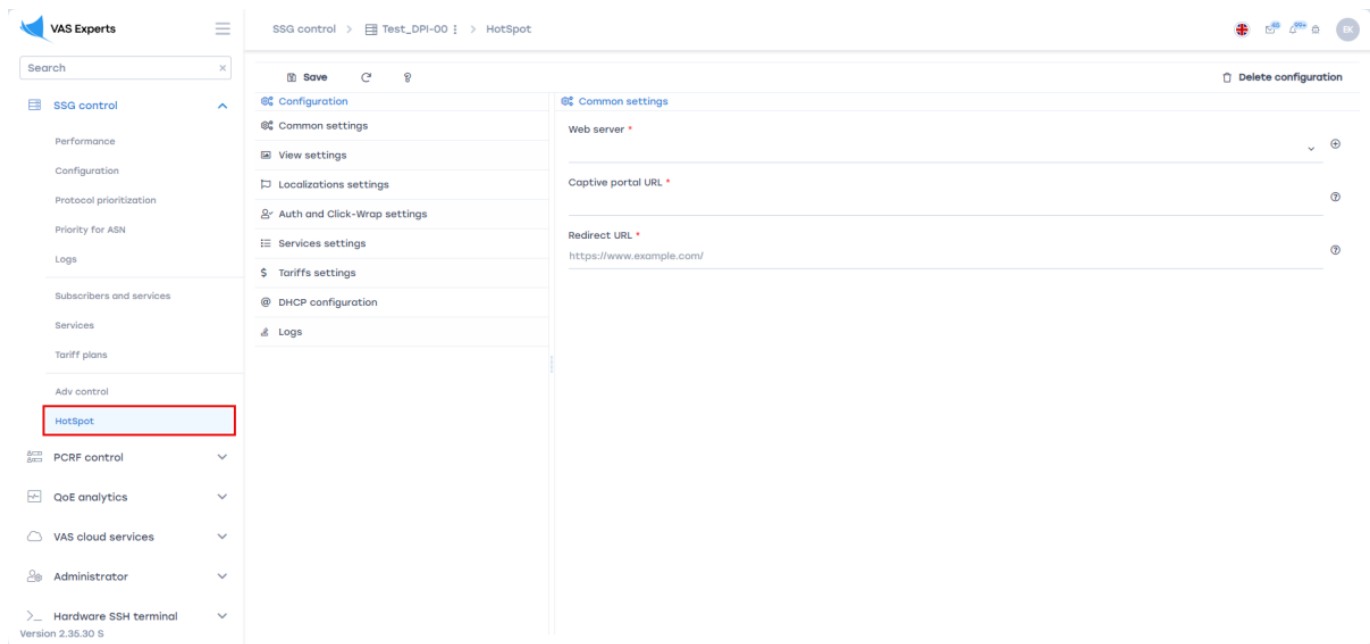
WiFi HotSpot configuration is carried out in the GUI section DPI Management → HotSpot.



This section was introduced in GUI v2.6.6. The module description interacting with this section is available via [this link](#).

The section contains tabs:

- [General Settings](#)
- [Appearance Settings](#)
- [Localization Settings](#)
- [Authorization and Click-Wrap Settings](#)
- [Service Settings](#)
- [Tariff Settings](#)
- [DHCP Settings](#)
- [Logs](#)

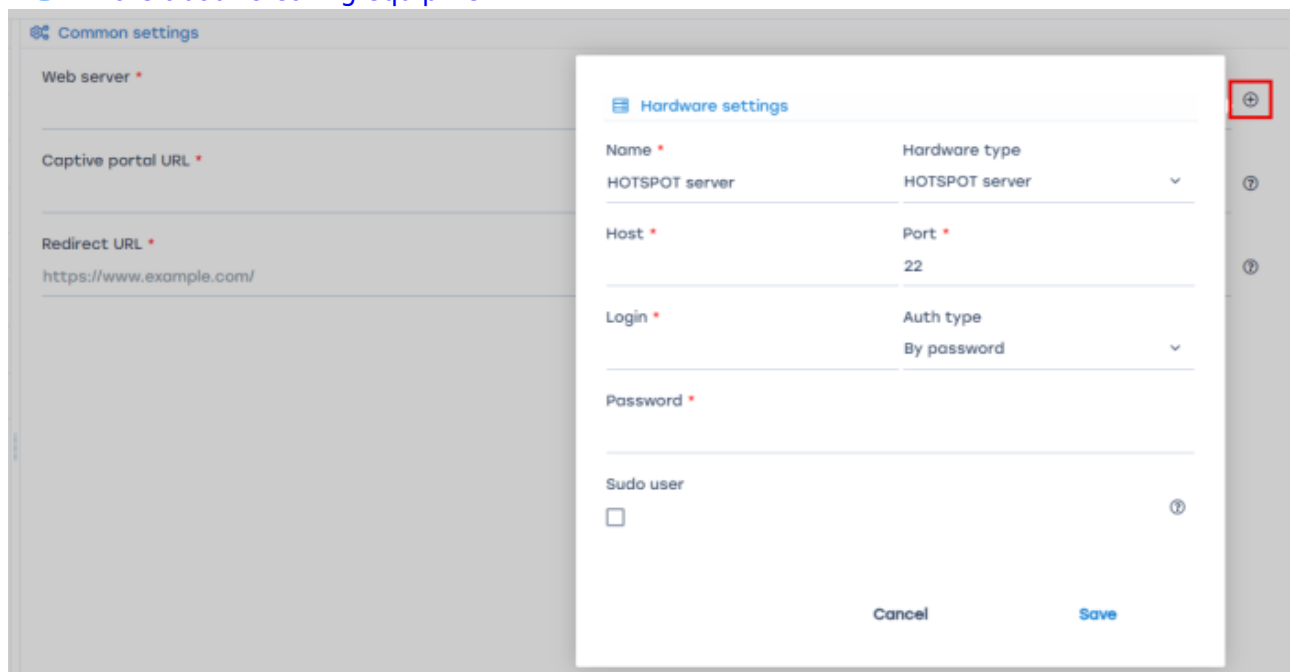


General Settings

1. In the "Web Server" parameter, select the HOTSPOT server linked to DPI.
If the corresponding equipment is not available, add it using the "Add New Device" button. A form for creating a new device will appear; in it, create a device with the "HOTSPOT server" type.



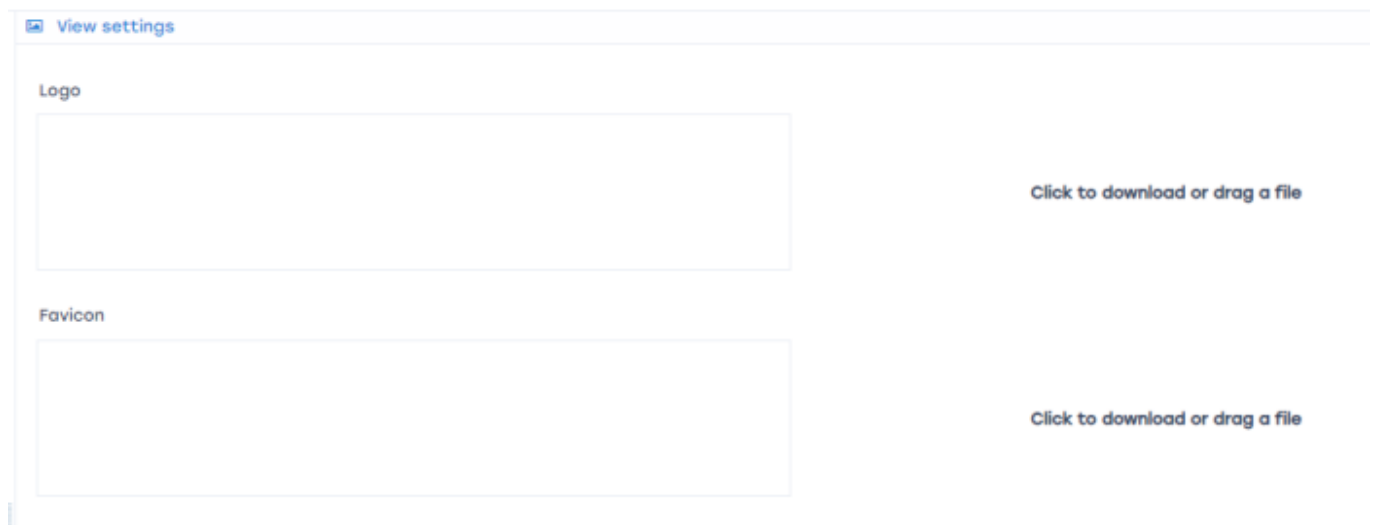
[More about creating equipment.](#)



2. In the "Captive portal URL" parameter, specify the URL to which the subscriber will be redirected for network authorization. Creates/updates the Whitelist service profile with the entered URL. The profile name is hotspot_white_list_profile.
3. In the "Redirect URL" parameter, specify the URL to which the subscriber will be redirected after successful authorization on the HotSpot portal. If the field is empty, the subscriber is redirected to <https://google.com>.

Appearance Settings

In this section, you can change the favicon and logo displayed on the portal page.



View settings

Logo

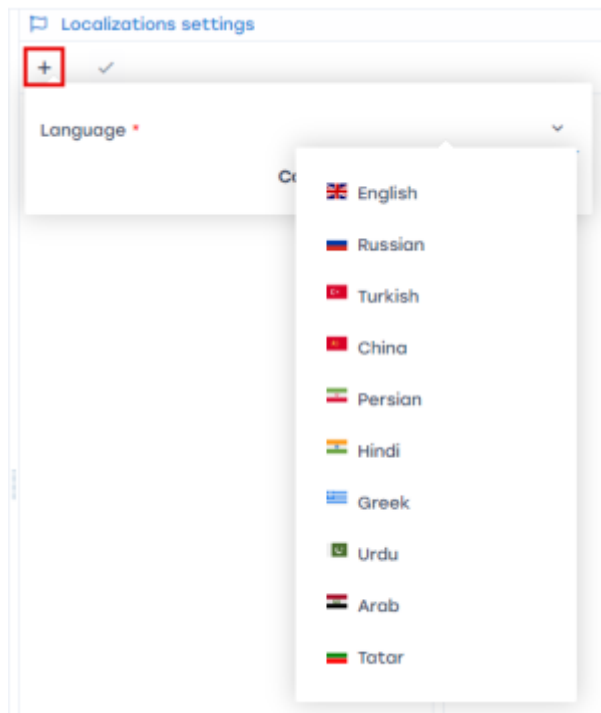
Click to download or drag a file

Favicon

Click to download or drag a file

Localization Settings

1. Add a language for localization settings by clicking +. Available languages list:



Localizations settings

+

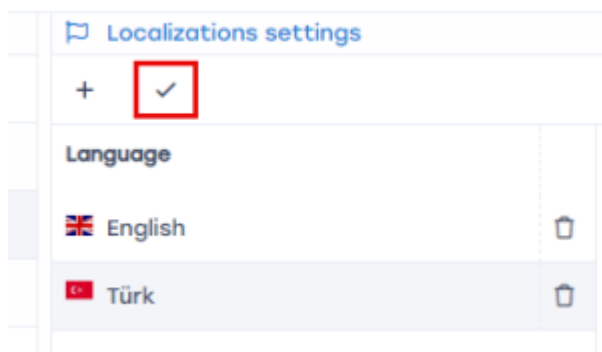
Language *

- English
- Russian
- Turkish
- China
- Persian
- Hindi
- Greek
- Urdu
- Arab
- Tatar

2. Select the added language to configure parameter values. Change values by clicking on them.

Localizations settings		
+ ✓		
Language	Key	Value
English	info_label	To activate Internet access, specify your mobile phone
	phone_label	Phone number
	wrong_phone_number	Wrong phone number
	wrong_email	Wrong email
	get_code_button	Get code
	call_button	Make call
	call_text	Call this number for authorization
	sms_code_input_label	Code from sms
	auth_code_button	Authorize
	resend_code_button	Resend code
	success_text	Some success authorization text of any length
	click_wrap_text	Some text for click wrap
	click_wrap_checkbox	Some label for click wrap text
	click_wrap_button	Continue
	click_wrap_button_cancel	Cancel
	close_window_label	Close Window?

- Any language can be set as the default by clicking the “Set as Default” button. By default, the first added language is set as the default.



If two or more languages are configured, the authorization page will have a button to select the language.

Authorization and Click-Wrap Settings

WiFi Authorization Settings

Wi-Fi authorization is the process of connecting to a network with user identification via a phone number or SMS.

To configure this type of authorization, select “Yes” for the “Enable Wi-Fi Authorization” parameter. All WiFi authorization settings will then appear:

- “Enable Session Management.”
If “Yes” is selected, subscriber creation and management (authorization and deauthorization)

occur through DPI, allowing for “Session Lifetime” configuration (After the session lifetime expires, HotSpot will execute a script to delete the subscriber from DPI and apply the authorization tariff and the Whitelist service to their IP address).

If “No” is selected, subscriber management occurs via the billing system or another third-party service. Here, you need to configure an HTTP request sent to the billing API, which will apply and remove the appropriate policies for the subscriber.

2. “Authorization Type.” Two options are available:

1. “By Code” — for this option, you need to configure HTTP requests to the service for sending SMS and calls.

You can also enable the “Sequential Authorization” parameter—this mode allows you to select the initial authorization method, and the “Debug Mode”—enables sending the authorization code to the email specified in the phone number field to test the subscriber authorization scenarios.

2. “By Outgoing Call” — for this option, configure two parameters:

1. “Phone Numbers for Outgoing Calls” — enter phone numbers separated by commas. HotSpot will randomly select a phone number to authorize the subscriber by an outgoing call.
2. “Secret Key for Hash Generation” — configure the call service to send an HTTP request about receiving an outgoing call from the subscriber to HotSpot. A hint on setting up the HotSpot API method for receiving the signal and creating a hash is available by clicking the question mark icon next to the parameter.

Click-Wrap Settings

Click-wrap displays the text of a public offer that subscribers must agree to in order to use the services.

To configure this type of authorization, select “Yes” for the “Enable Click-Wrap” parameter. Click-wrap settings will then appear:

1. “Enable Session Management.”

If “Yes” is selected, subscriber creation and management (authorization and deauthorization) occur through DPI, allowing for “Session Lifetime” configuration (After the session lifetime expires, HotSpot will execute a script to delete the subscriber from DPI and apply the authorization tariff and Captive Portal service to their IP address).

If “No” is selected, subscriber management occurs via the billing system or another third-party service. Here, you need to create an HTTP request sent to the billing API, which will apply and remove the appropriate policies for the subscriber.



This scenario is only possible if the click-wrap works in conjunction with [WiFi Authorization](#). If only the click-wrap is active, restrictions (Whitelist service) are removed upon confirmation.

The click-wrap text is configured in the “[Localization Settings](#)” section under parameters prefixed with “click_wrap”:

click_wrap_text	Some text for click wrap
click_wrap_checkbox	Some label for click wrap text
click_wrap_button	Continue
click_wrap_button_cancel	Cancel

Service Settings



Service settings are available only when “Enable Session Management” = “Yes” in the “Authorization and Click-Wrap Settings” section.

This form provides settings for services available to subscribers after they authorize on the portal.

Services settings

Enable Advertising (service id = 2)

▼ ⓘ

Enable Ad blocking (service id = 3)

▼ ⓘ

Enable black list (service id = 4)

▼ ⓘ

CGNAT named profile (service id = 11)

▼ ⓘ

Enable Notification (service id = 50)

▼ ⓘ

No

Yes

The following services are available for connection:

- 2. Advertising — no profile
- 3. Ad Block — no profile
- 4. Blacklist — with or without a profile
- 11. CGNAT — profile selection required
- 50. Notification — no profile

Tariff Settings



Tariff settings are available only when “Enable Session Management” = “Yes” in the “Authorization and Click-Wrap Settings” section.

This form provides settings for the tariffs available for subscribers after authorization on the portal.

Tariffs settings

Tariff

Authorization Policing

Wifi Policing

Simple form

Common form

Advanced form

Editor

Classes

Class	Inboud		Outbound	
	Rate	Ceil	Rate	Cell
<input checked="" type="checkbox"/> root				
<input checked="" type="checkbox"/> 0				
<input checked="" type="checkbox"/> 1				
<input checked="" type="checkbox"/> 2				
<input checked="" type="checkbox"/> 3				
<input checked="" type="checkbox"/> 4				
<input checked="" type="checkbox"/> 5				
<input checked="" type="checkbox"/> 6				
<input checked="" type="checkbox"/> 7				

DHCP Settings

To properly configure the subscriber connection, it is necessary to configure DHCP settings for the specified subnet.



When adding a subnet, specify the following parameters:

1. "IP Address/Mask" — format xx.xx.xx.xx/xx
2. "Exclude Addresses" — enter addresses separated by commas. Excluded addresses are assigned to subscribers automatically.



Logs

Use this section to view logs related to Wi-Fi HotSpot functioning.

