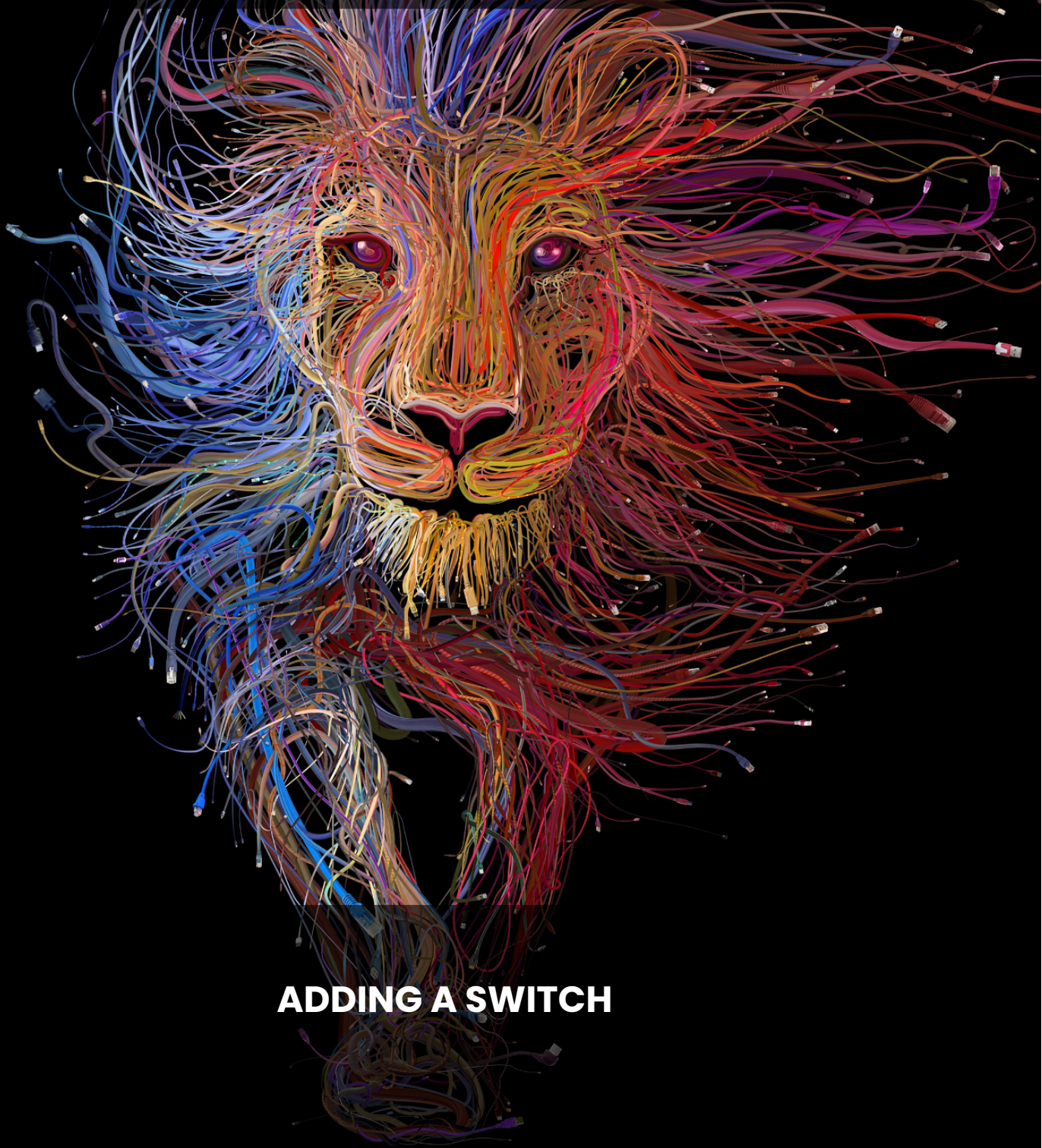
FastNAC



ADDING A SWITCH

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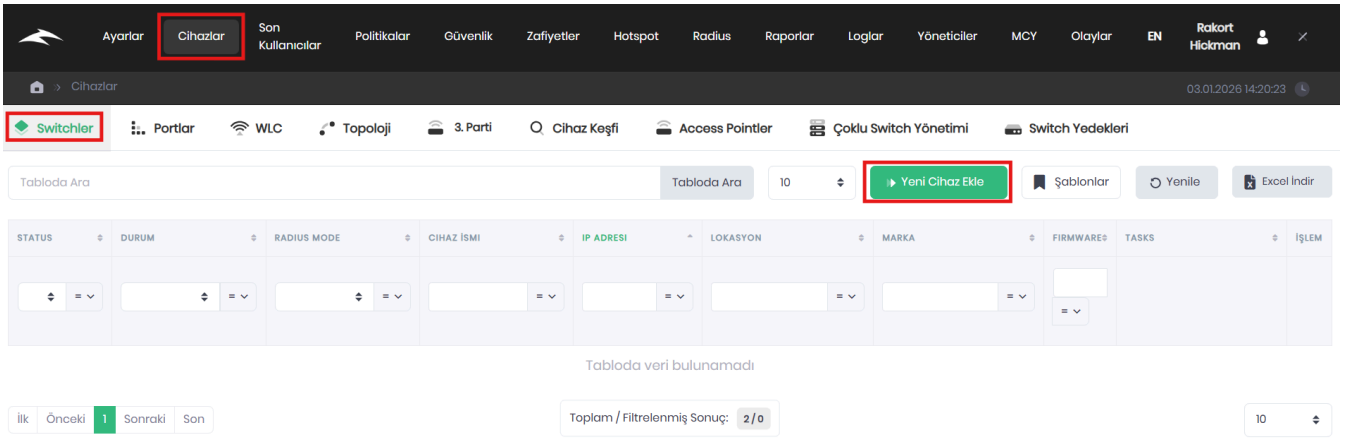
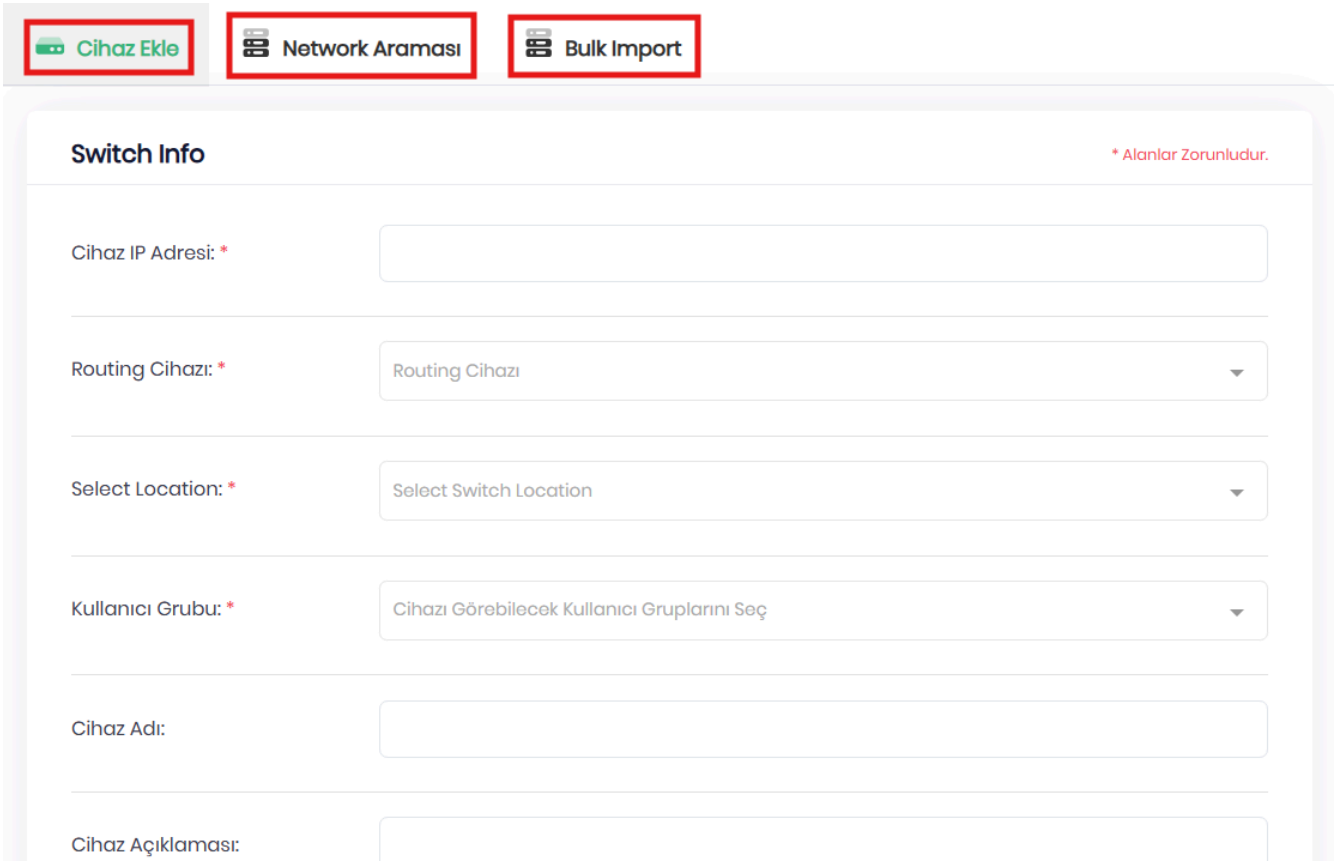
1. Adding a Switch

Under Devices -> Switches, go to " **New"** You can add a new switch to FastNAC using the " **Add Device " button.**



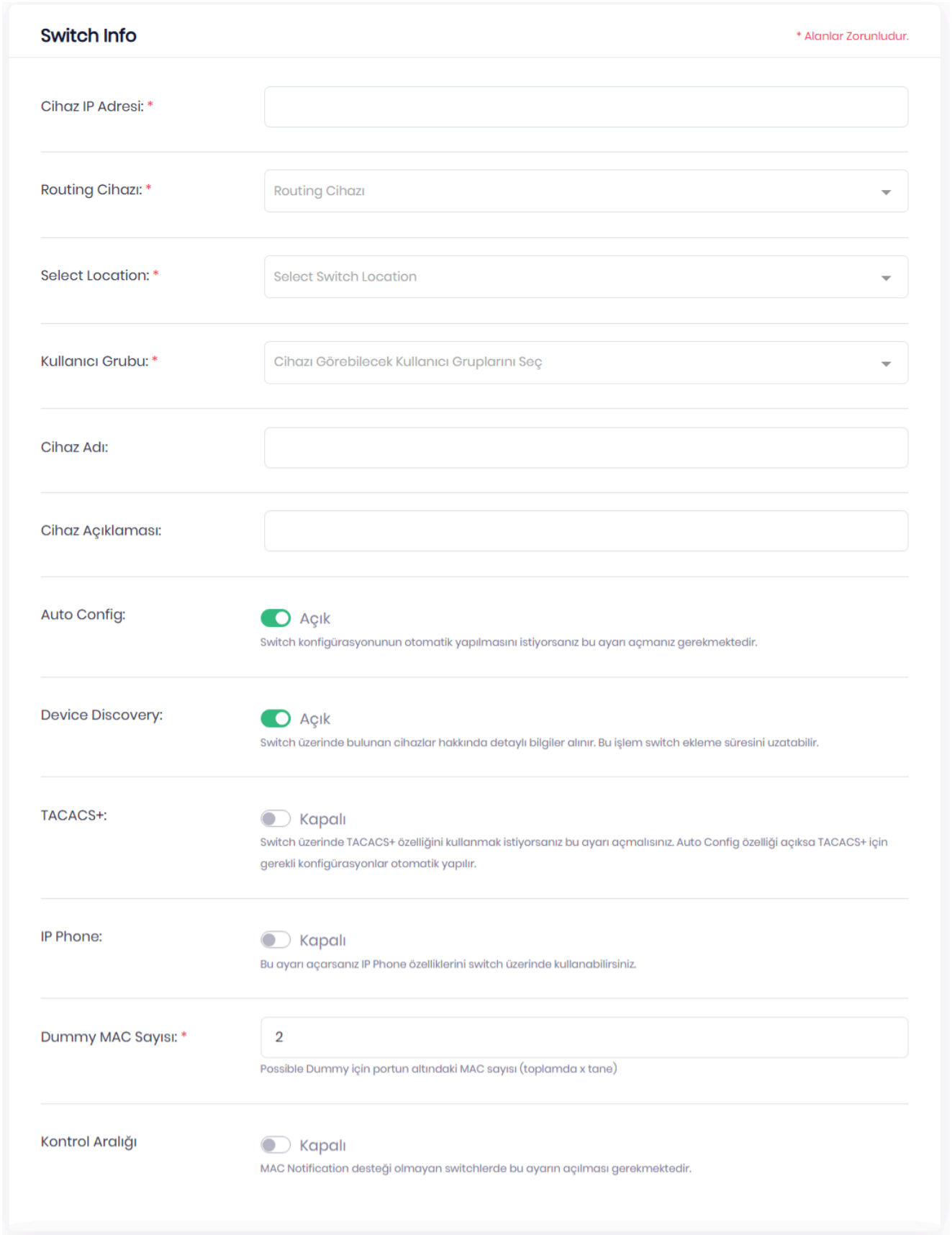
Switches can be added to the system using an IP address, network block scan, or an Excel template.



1.1. Adding a Switch by IP Address

To add a single switch to the system with an IP address, use the " **Device"** You can use the " **Add** " section.

1.1.1. Switch Information



Device IP Address: You need to enter the switch's IP address.

Routing Device: You need to select the gateway address (the device where the routing process is performed) for the end-user devices connected to the switch. If there is more than one routing device, you can select multiple devices in this field.

Location: If you want to differentiate switches based on location, you can select the relevant option in the relevant section. (If no location-based operation is required, you can select the default " **General** " location.)

User Group: If you want to manage switches based on user groups, you can select the user groups that can view and manage the switches from the relevant section. You can select more than one user group in this area. (If you do not want to perform user group-based operations, you can select the default " **General** " user group.)

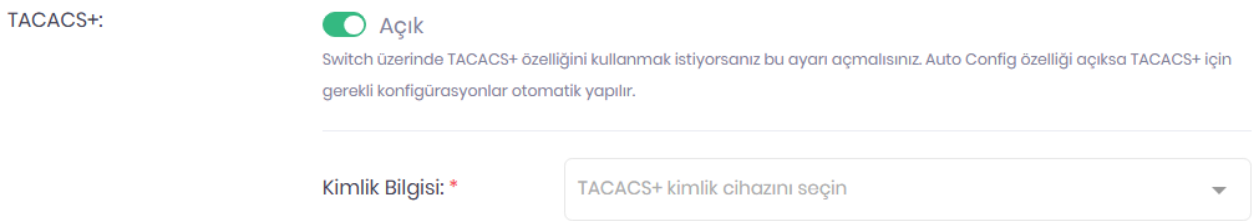
Device Name (Optional): You can define a unique name for the device. This field is optional. If no name is defined, the device will use its hostname.

Device Description (Optional): You can enter a device-specific description. This field is optional. If no description is defined, sysDescr received via SNMP will be used as the device description.

Auto Config (On/Off): If the "Auto Config" setting is enabled, FastNAC can automatically configure the necessary settings on the switch. (Auto configuration is done via SSH on some switch models and via SNMP on others. For details on this, please refer to the switch_configurations.docx document.)

Device Discovery (On/Off): When this setting is enabled, you can detect other network devices via CDP and LLDP protocols during the switch adding process. Switches and APs are distinguished based on the information received via CDP and LLDP protocols. The values from the received information should be entered in the " **Settings** " -> " **Parameters** " section.

TACACS+ (On/Off): This setting must be enabled if you want to use the TACACS feature on the switch. After enabling this setting, an input field will appear for entering the TACACS authentication information.



TACACS credentials can be entered in " **Settings** " -> " **TACACS+"** You can edit **the settings in the "Settings** " section. (If the Auto Config feature is enabled, the necessary configurations for TACACS will be done automatically.)

IP Phone (On/Off): If IP phones are used within the network and the configuration is Switch -> IP Phone, IP Phone -> End-User Device, this setting must be enabled to prevent the IP phone from being disconnected during VLAN changes.

Dummy MAC Count: Here you can specify the maximum number of MAC addresses that can come under a port. If a port receives the number of MAC addresses entered here or more, FastNAC will mark that port as dummy and may send you a notification. (If you are using IP telephony as described above, this number must be a minimum of 2. In an IP telephony scenario, both the IP phone's and the end-user device's MAC addresses will come under a port.)

Check Interval (On/Off): This setting must be enabled if some switch models do not support SNMP Trap MAC Notification. After enabling this setting, checks will be performed via the switch at the specified time interval on switches that do not support MAC Notification.

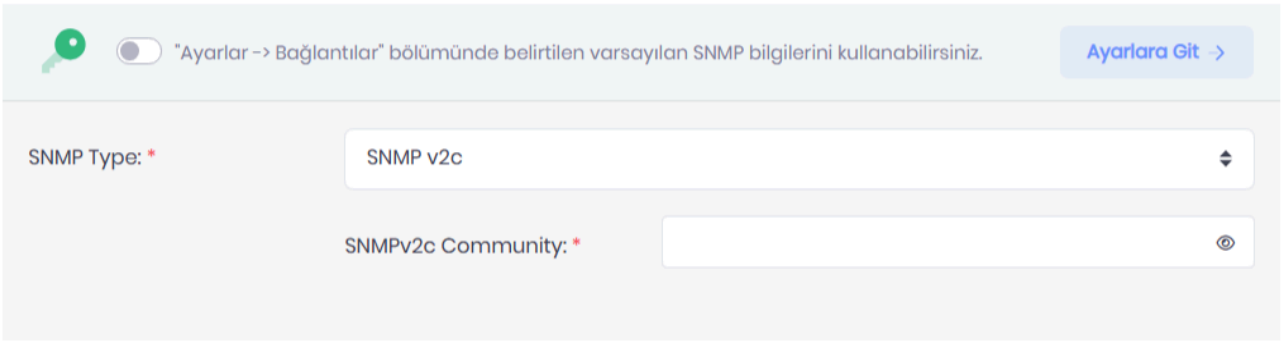
In the example above, if the switch does not support MAC Notification, checks will be performed every 120 seconds.

1.1.2. Contact Information

This section is where you define the connection patterns of FastNAC with the switch.

1.1.2.1. Connection via SNMP

This is the area where SNMP connection information is defined.

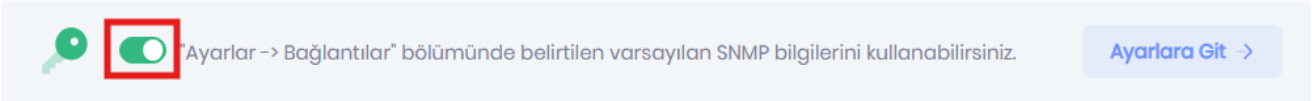


If the switches have specific SNMP connection information, you can fill in the relevant inputs.

FastNAC offers support for SNMPv1, SNMPv2c, and SNMPv3. Accepted options for SNMPv3 are:

- It offers support for **noAuthNoPriv** , **authNoPriv** , and **authPriv** file types .

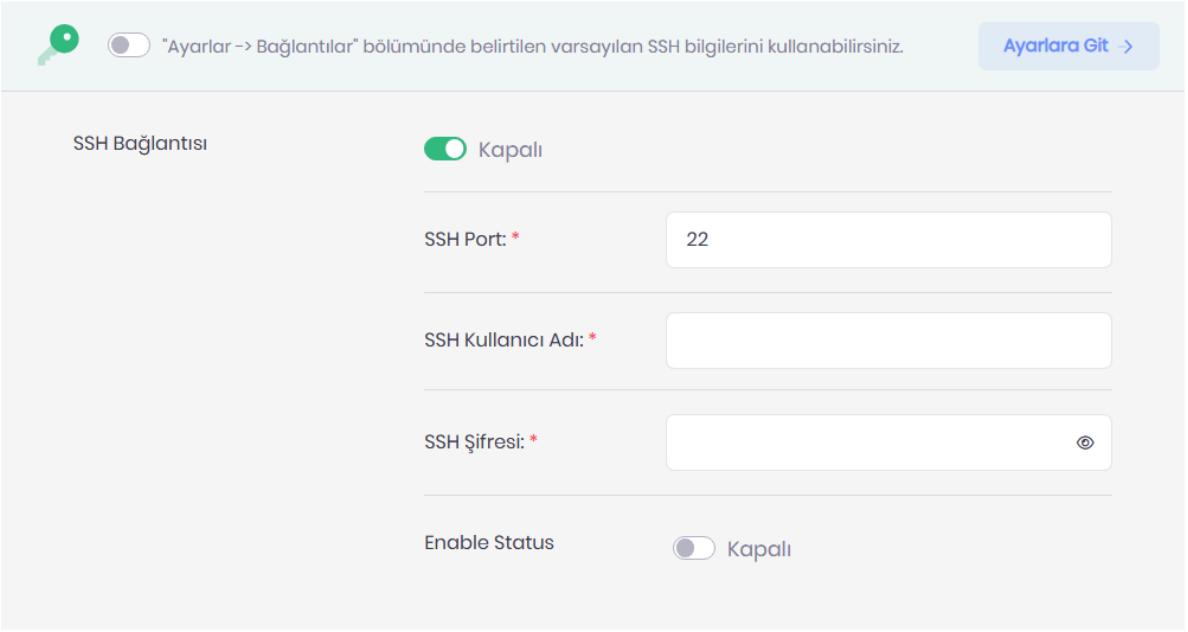
- It supports **No Auth Protocol** , **MD5** , **SHA128** , **SHA256** , **SHA384** , **and SHA512** as authentication types .
- Priv offers support for **No Priv Protocol** , **DES** , **AES 128** , **AES 192** , and **AES 256 .**



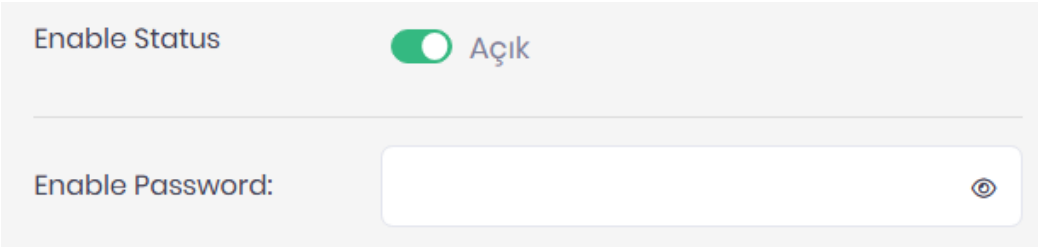
If all switches have the same SNMP connection information and this information is located in " **Settings** " -> " **Connection " Settings** -> **SNMP** If defined in the " **Settings** " section, instead of typing the SNMP information individually, you can enable the relevant setting and use the SNMP information in the settings section.

1.1.2.2. Connecting via SSH

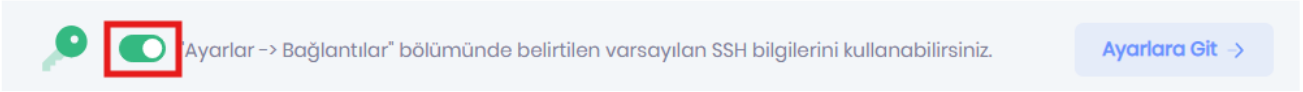
SSH connection is not a mandatory connection type for FastNAC. It is required to use other modules on FastNAC. You need to configure the relevant settings to use features such as Auto Config and the Remote Connection module.



SSH Port: If a dedicated SSH port is used on the switches, this should be entered here. By default, it uses port 22.
SSH Username: The username required for the SSH connection.
SSH Password: The password required for the SSH connection.
Enable Status (On/Off): This setting must be enabled if the switches have an " **Enable** " password.



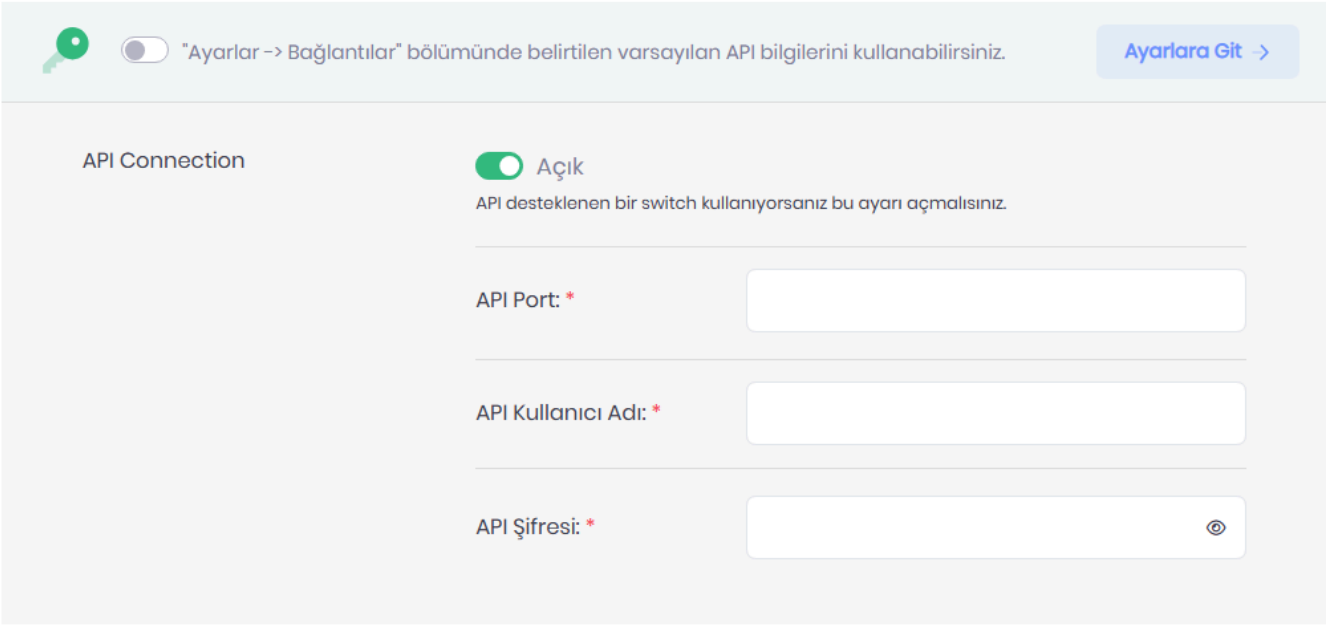
Once this setting is enabled, an input field will appear asking you to enter the password for Enable. You need to enter the relevant Enable password in this field.

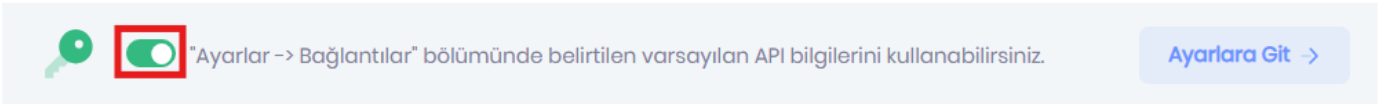


If all switches have the same SSH connection information and this information can be found in " **Settings** " -> " **Connection " Settings** " -> " **SSH** If defined in the " **Settings** " section, instead of typing the SSH information one by one, you can enable the relevant setting and use the SSH information in the settings section.

1.1.2.3. Connecting via API

In some switch models, features such as VLAN lists and MAC lists may be disabled via SNMP. In such cases, the switch needs to be added via an API connection.

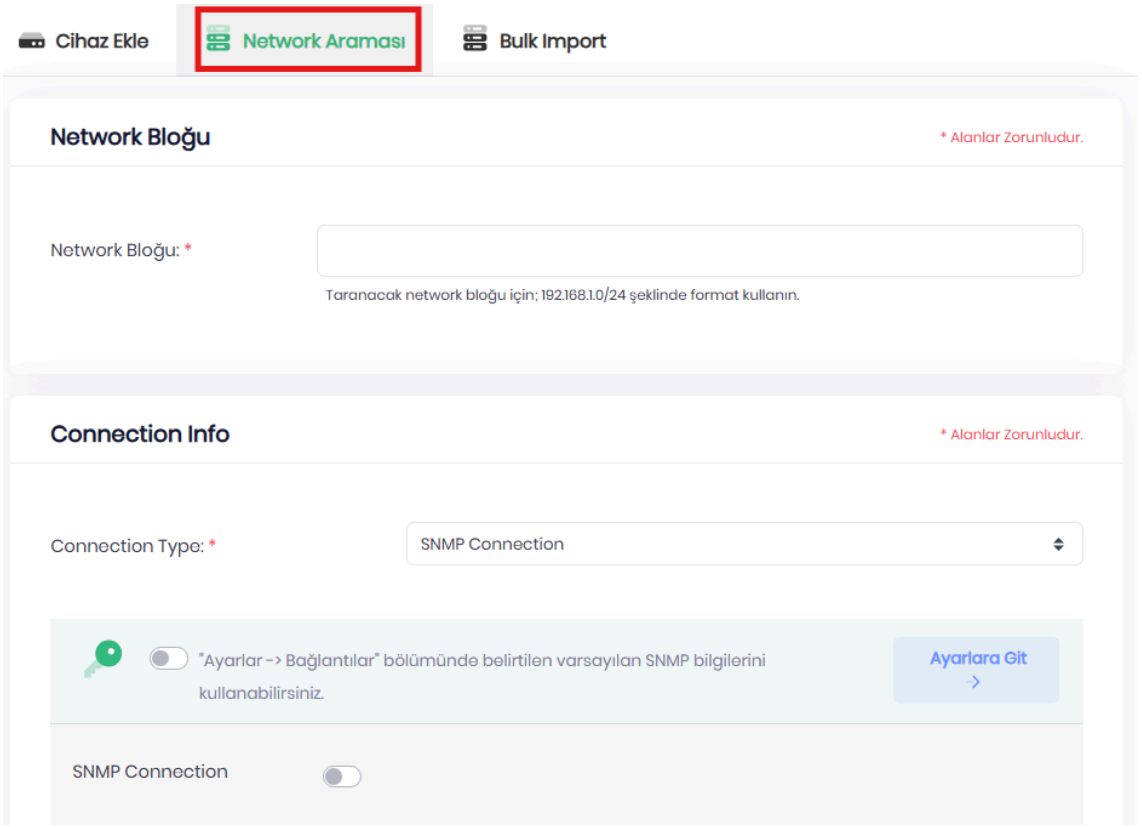




If all switches have the same API connection information and this information is defined in "Settings" -> "Connection Settings" -> "API Setting," you can enable the relevant setting and use the API information in the settings section instead of typing the API information one by one.

1.2. Network Search

On the switch adding screen, navigate to the relevant tab menu. Fill in the required information in this area, scan the relevant network block, and list the found switches.



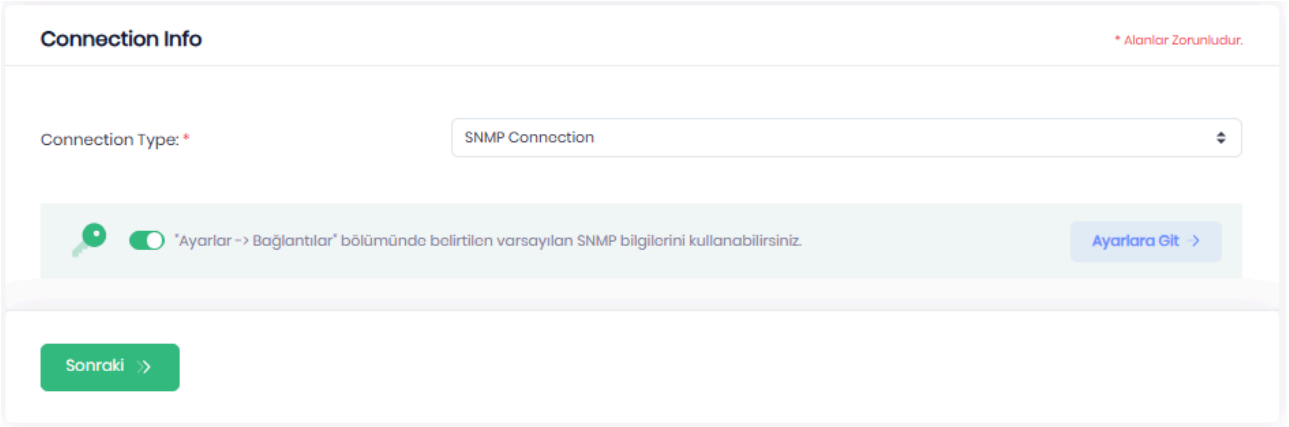
1.2.1. Step 1: Network Block and Connection Information

1.2.1.1. Network Block

The IP address block to be scanned is entered in the relevant field.

1.2.1.2. Contact Information

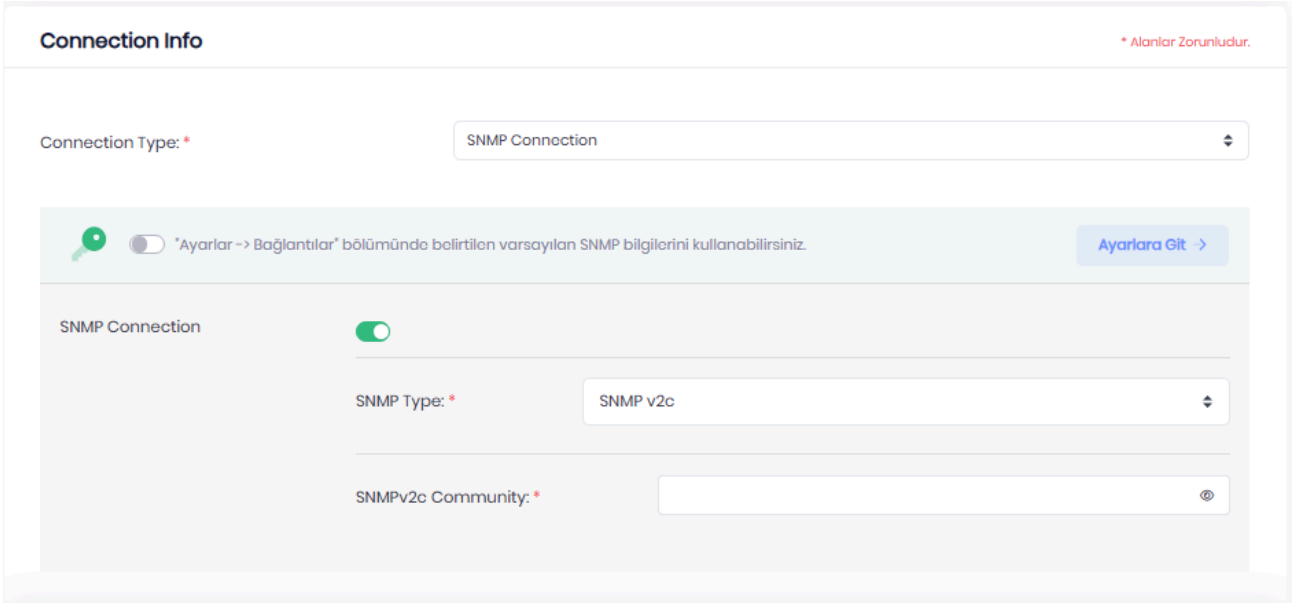
The connection information to be used when scanning the IP block mentioned above is selected from this field.



You can use the default connection information here. FastNAC will start scanning the relevant network block with the specified connection information.

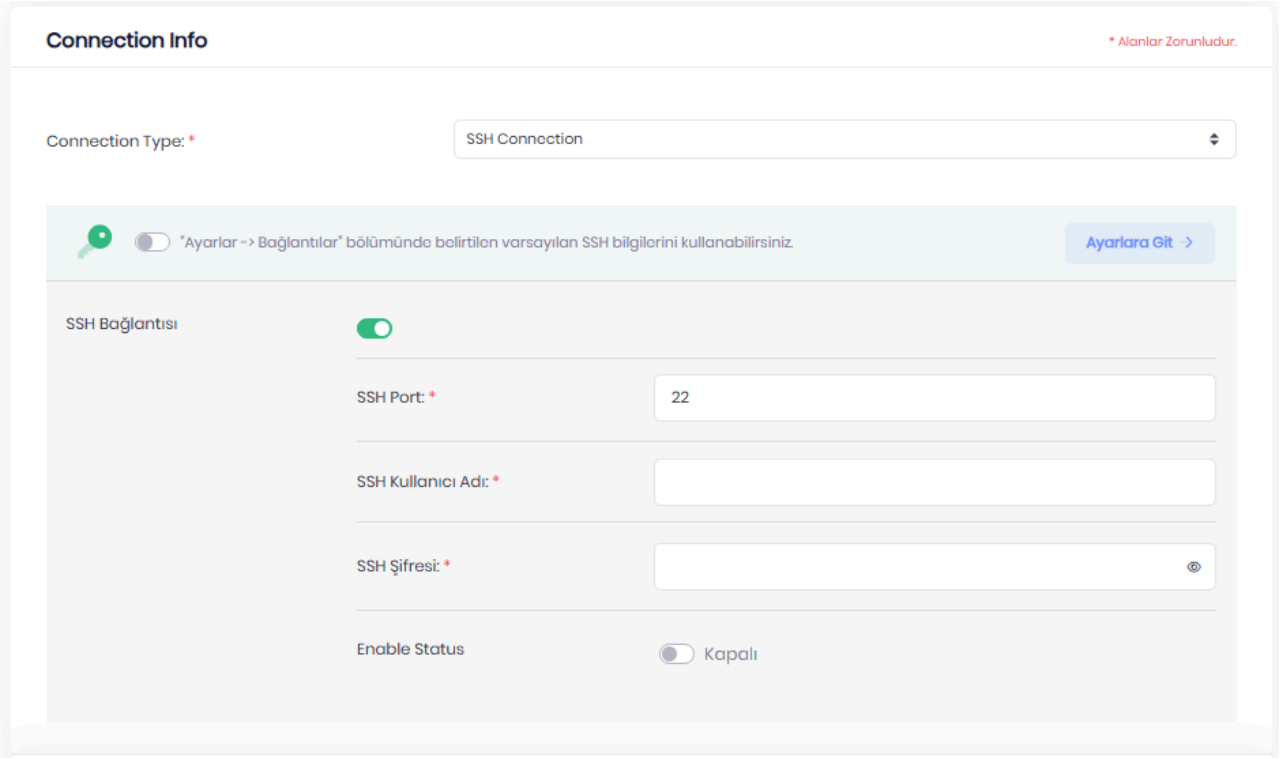
1.2.1.2.1. SNMP Connection

You can use the default SNMP information in this section. If you want to scan with a different SNMP connection, you can fill in the relevant inputs.

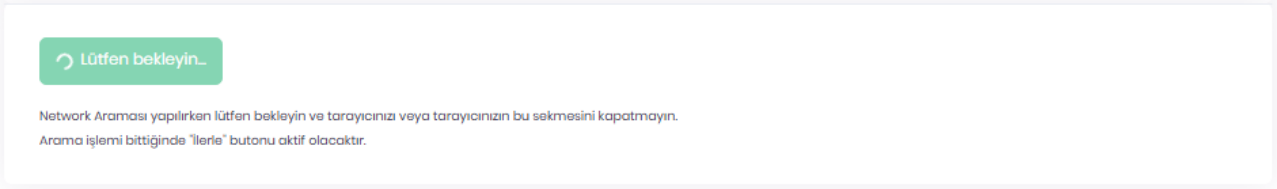


1.2.1.2.2. SSH Connection

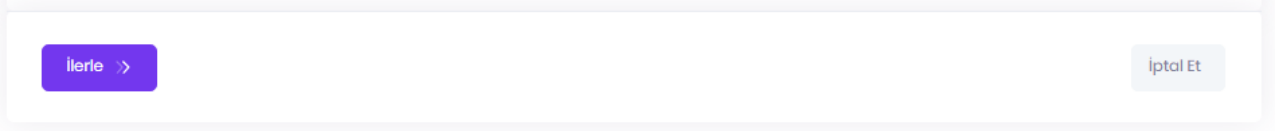
You can use the default SSH information in this section. If you want to scan with a different SSH connection, you can fill in the relevant inputs.



After filling in the relevant information, click the " **Next >>** " button. The system will start scanning the given IP block and begin identifying switches using the provided connection information. The scanning process may take a long time depending on the size of the given IP block.



After the relevant scan is complete, click " **Next ".** The **">>** " button changes to a " **Proceed >>** " button.

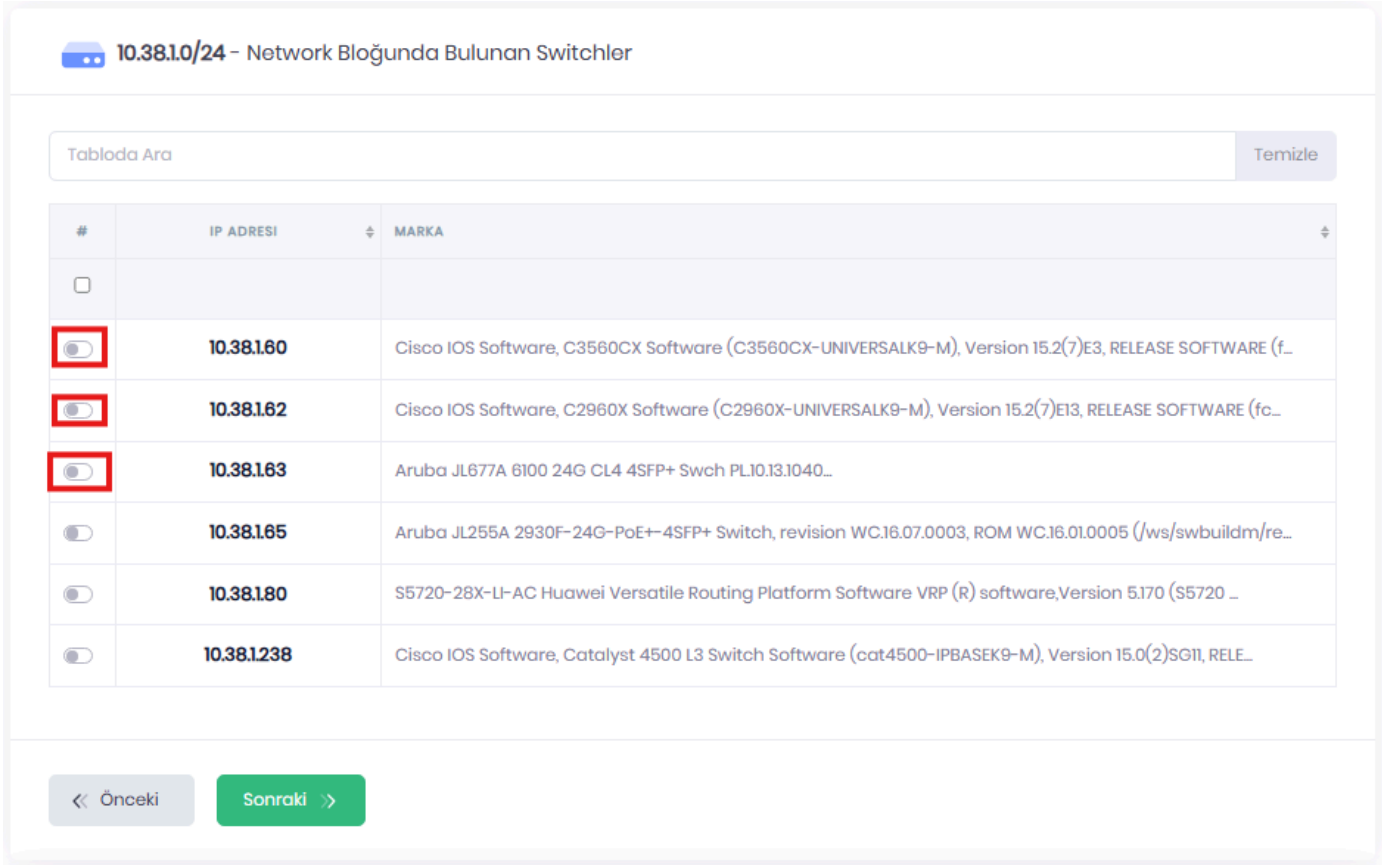


" **Move forward "** You can proceed to the next step by pressing the **">>** " button.

1.2.2. Step 2: Switch Selections

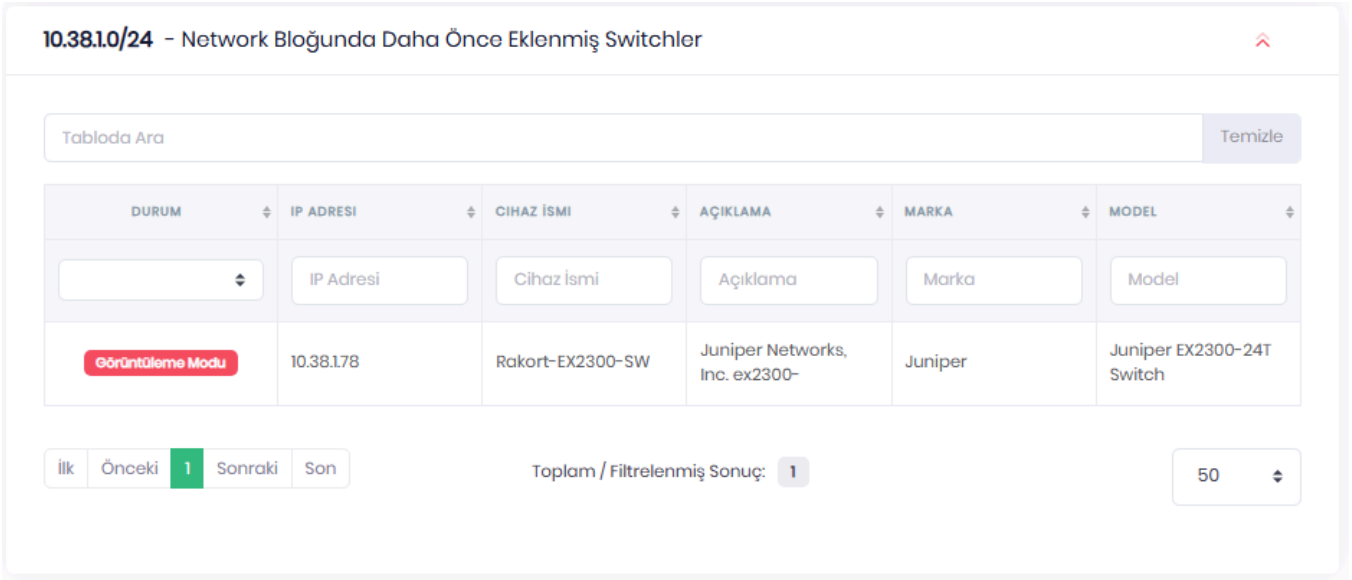
1.2.2.1. Switches located in the IP Block

The first table you see will list the switches available to add to FastNAC. You can select the switches you want to add to the system using the On/Off button on the left side of the table.



1.2.2.2. Switches previously added to the IP block

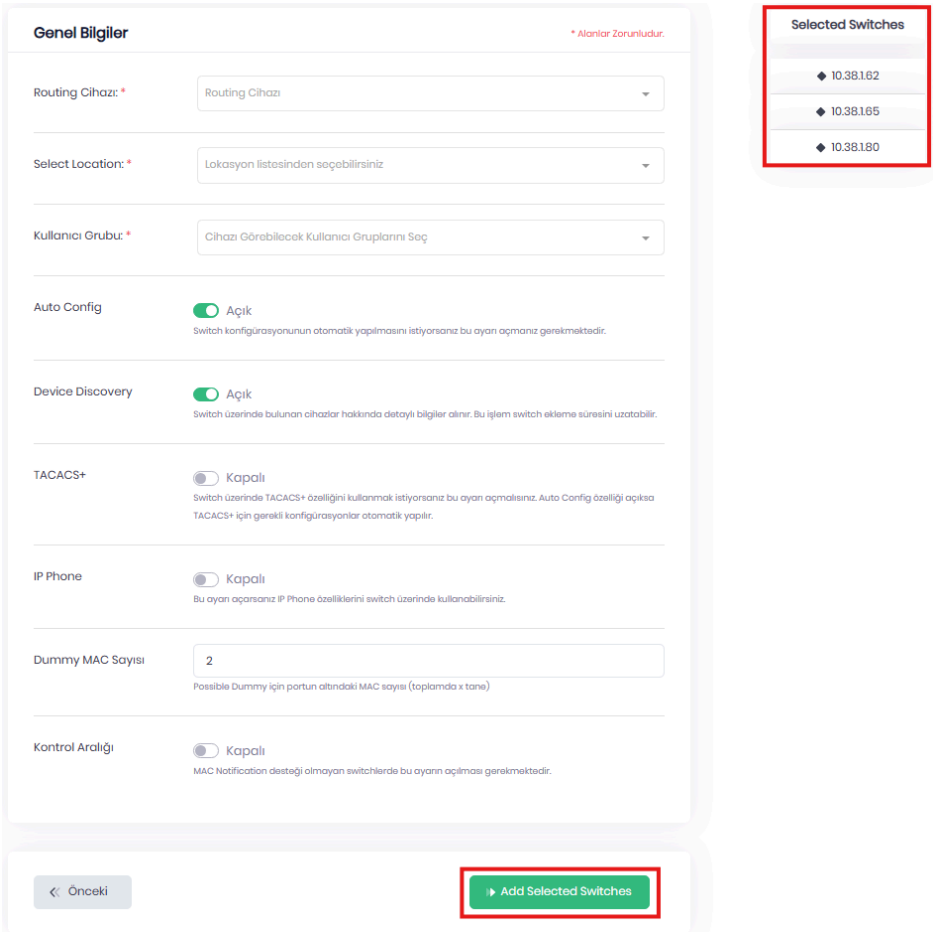
On this screen you can see the switches that were previously added from the IP block you specified.



After selecting the switches to be added to the system from the first table, click " **Next ".** You can proceed to the next step by pressing the **">>** " button.

1.2.3. Step 3: Adding the Switch

On the next screen, " **General"** The " **Information** " section is filled in, and to add the switches you selected in the previous step to the system (also visible on the right side of the screen), the " **Add Switches** " button is pressed.



Routing Device: You need to select the gateway address (the device where the routing process is performed) for the end-user devices connected to the switch. If there is more than one routing device, you can select multiple devices in this field.

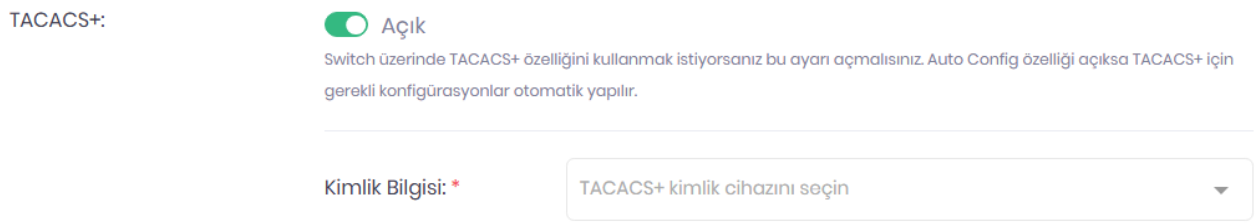
Location: If you want to differentiate switches based on location, you can select the relevant option in the relevant section. (If no location-based operation is required, you can select the default " **General** " location.)

User Group: If you want to manage switches based on user groups, you can select the user groups that can view and manage the switches from the relevant section. You can select more than one user group in this area. (If you do not want to perform user group-based operations, you can select the default " **General** " user group.)

Auto Config (On/Off): If the "Auto Config" setting is enabled, FastNAC can automatically configure the necessary settings on the switch. (Auto configuration is done via SSH on some switch models and via SNMP on others. For details on this, please refer to the switch_configurations.docx document.)

Device Discovery (On/Off): When this setting is enabled, you can detect other network devices via CDP and LLDP protocols during the switch adding process. Switches and APs are distinguished based on the information received via CDP and LLDP protocols. The values from the received information should be entered in the " **Settings** " -> " **Parameters** " section.

TACACS+ (On/Off): This setting must be enabled if you want to use the TACACS feature on the switch. After enabling this setting, an input field will appear for entering the TACACS authentication information.



TACACS credentials can be entered in " **Settings** " -> " **TACACS+"** You can edit **the settings in the "Settings** " section. (If the Auto Config feature is enabled, the necessary configurations for TACACS will be done automatically.)

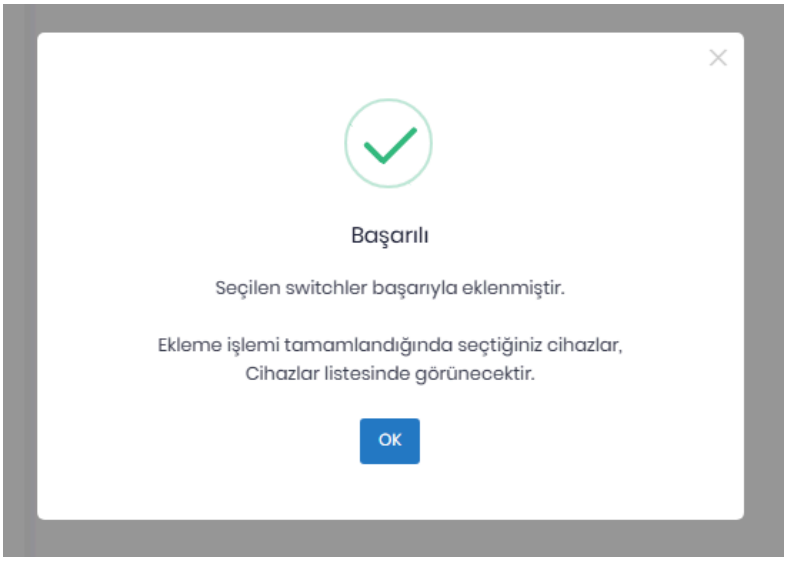
IP Phone (On/Off): If IP phones are used within the network and the configuration is Switch -> IP Phone, IP Phone -> End-User Device, this setting must be enabled to prevent the IP phone from being disconnected during VLAN changes.

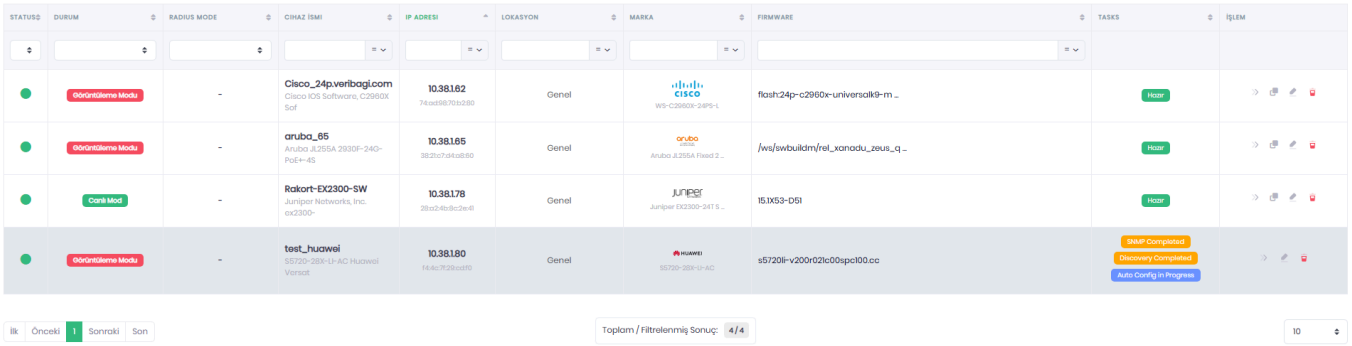
Dummy MAC Count: Here you can specify the maximum number of MAC addresses that can come under a port. If a port receives the number of MAC addresses entered here or more, FastNAC will mark that port as dummy and may send you a notification. (If you are using IP telephony as described above, this number must be a minimum of 2. In an IP telephony scenario, both the IP phone's and the end-user device's MAC addresses will come under a port.)

Check Interval (On/Off): This setting must be enabled if some switch models do not support SNMP Trap MAC Notification. After enabling this setting, checks will be performed via the switch at the specified time interval on switches that do not support MAC Notification.

In the example above, if the switch does not support MAC Notification, checks will be performed every 120 seconds.

When you press the relevant button, the selected switches will be added to the system and you will be automatically redirected to the Switch List.

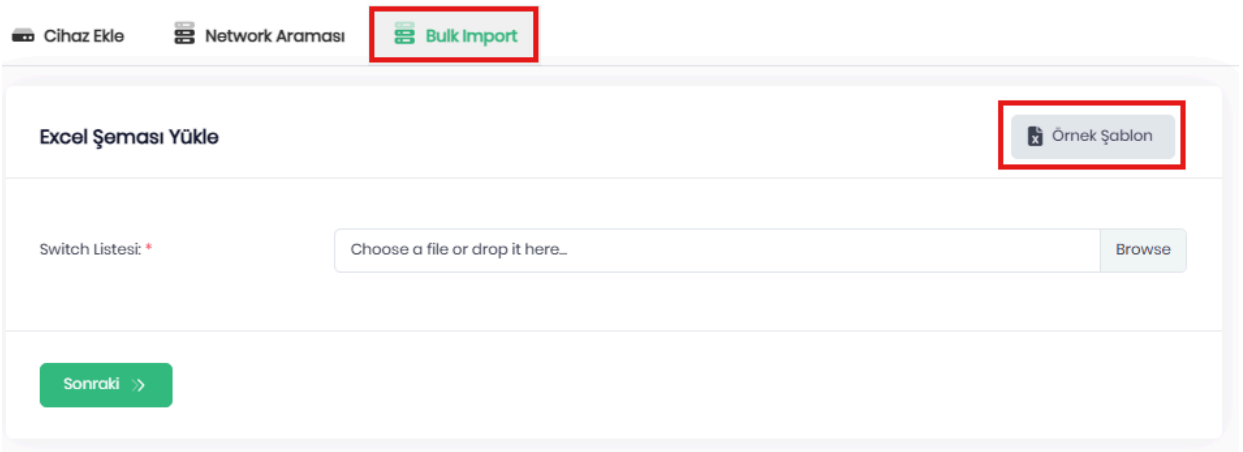


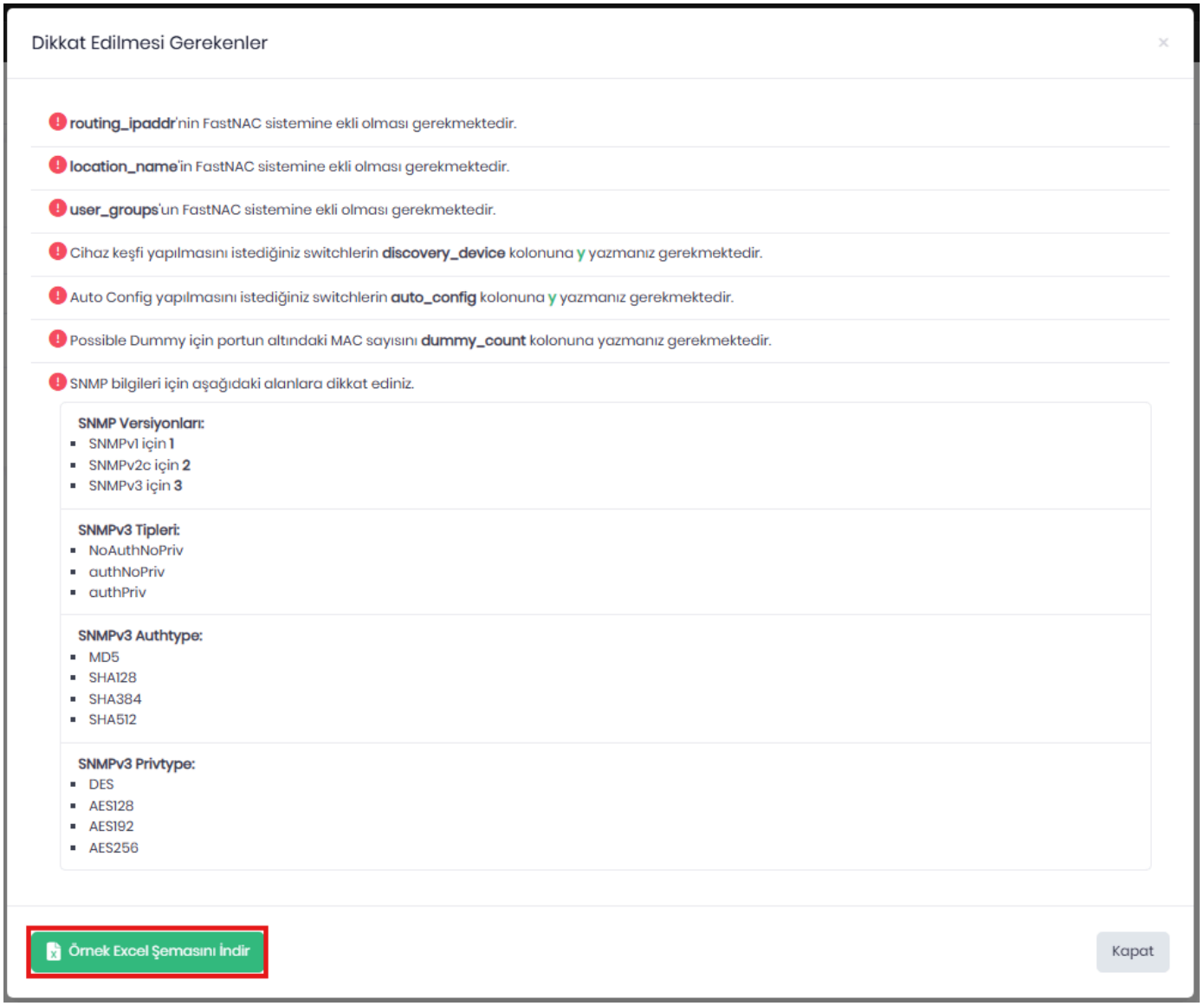


1.3. Excel List

1.3.1. Step 1: Excel Template

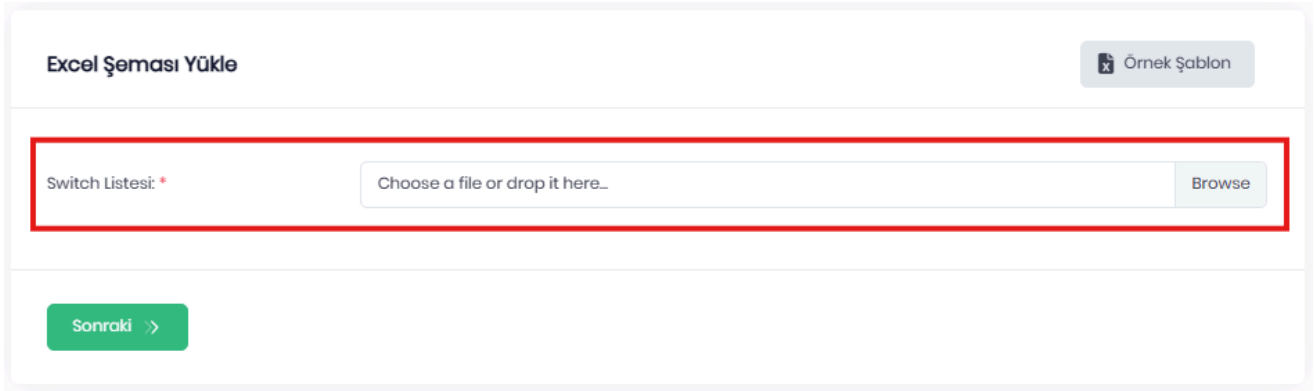
On the Switch creation screen, you can download a sample Excel template to your computer by clicking the "Sample Template" button after accessing the relevant Tab menu.





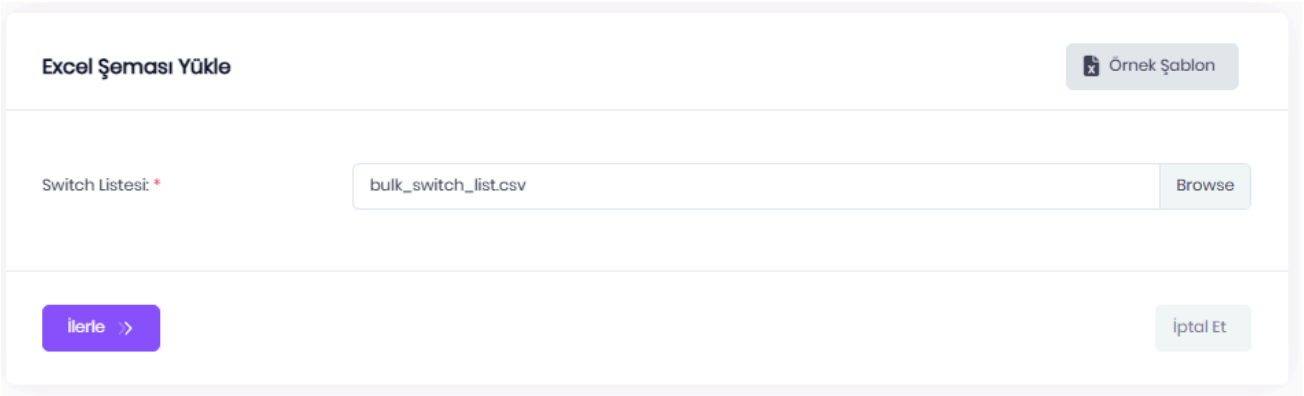
The Excel list is " **Caution "** You need to make the necessary adjustments according to the information provided in the " **Things to Do** " section.

Afterwards, you can use the " **Switch" function to open the Excel chart you have created.** You need to select it from your computer in **the "List** " section.



FastNAC will check the information filled in the Excel template. You can proceed to the next step by clicking the " **Next >> " button.**

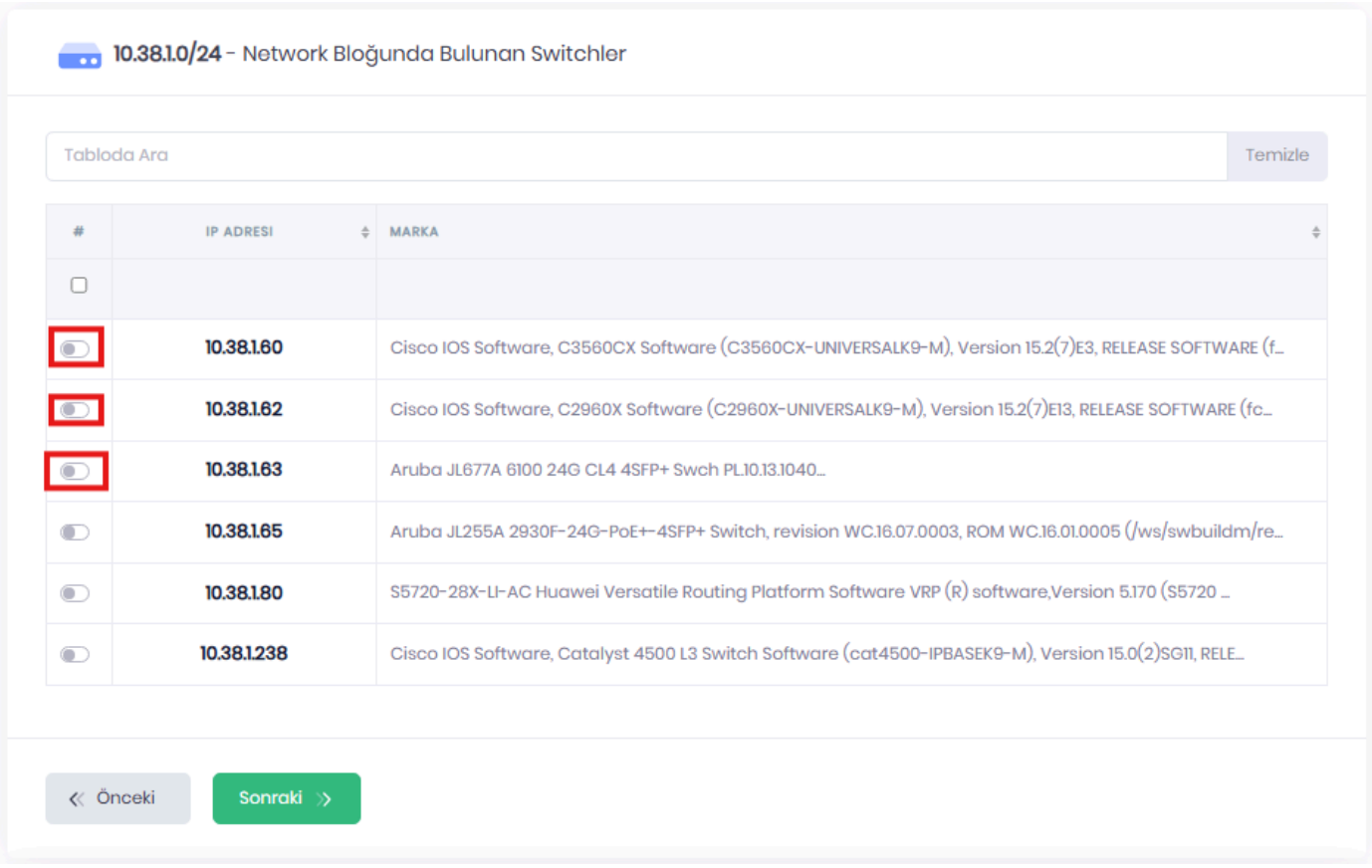
After the relevant scan is complete, click " **Next ".** The **">>** " button changes to a " **Proceed >>** " button.



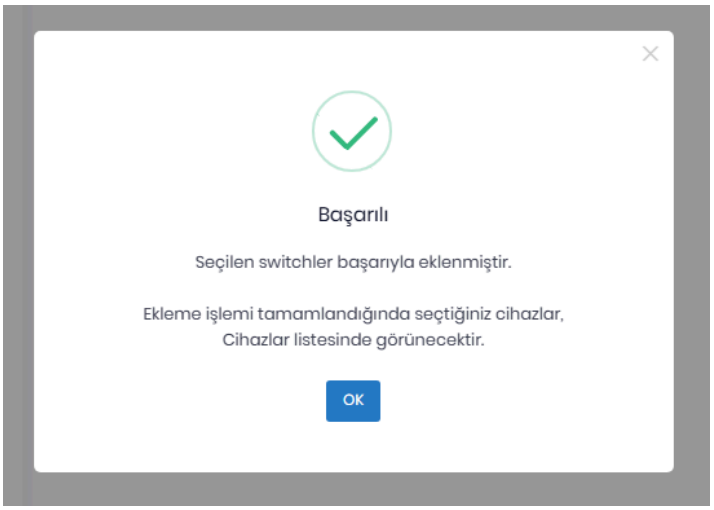
" **Move forward** " You can proceed to the next step by pressing the **">>** " button.

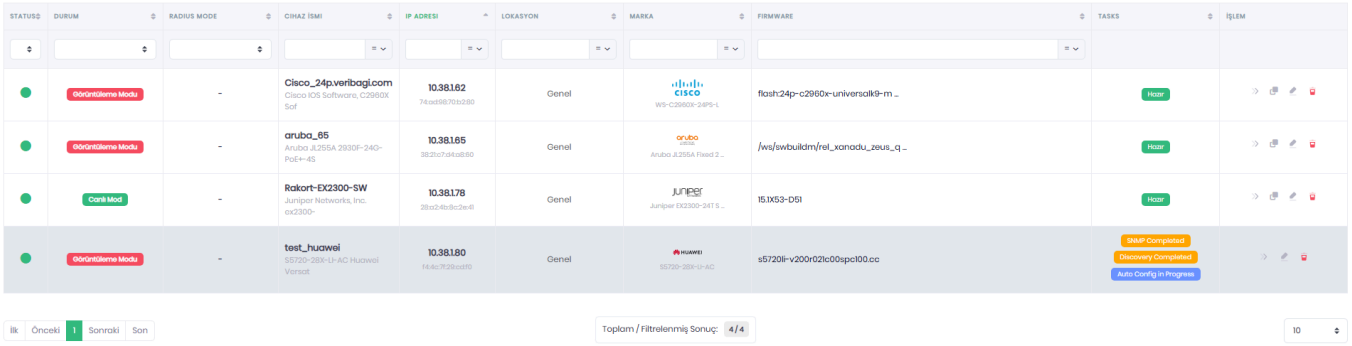
1.3.2. Step 2: Switch Selection

The first table you see will list the switches available to add to FastNAC. You can select the switches you want to add to the system using the On/Off button on the left side of the table.



The switches you select from the Excel template will be added to the system.


Başarılı
Seçilen switchler başarıyla eklenmiştir.
Ekleme işlemi tamamlandığında seçtiğiniz cihazlar,
Cihazlar listesinde görünecektir.
OK


STATUS
DURUM
RADIUS MODE
CİHAZ İSMİ
IP ADRESİ
LOKASYON
MARKA
FIRMWARE
TASKS
İŞLEM
Görüntüleme Modu
Cisco_24p.veribagi.com
10.38.1.62
Genel
flash:24p-c2960x-universalk9-m ..
Hazır
Görüntüleme Modu
aruba_65
10.38.1.65
Genel
/ws/swbuildm/rel_xanadu_zeus_q ..
Hazır
Canlı Mod
Rakort-EX2300-SW
10.38.1.78
Genel
15.1X53-D51
Hazır
Görüntüleme Modu
test_huawei
10.38.1.80
Genel
s5720li-v200r021c00spc100.cc
SNMP Completed
Discovery Completed
Auto Config in Progress
İlk
Önceki
1
Sonraki
Son
Toplam / Filtrelenmiş Sonuç: 4 / 4
10