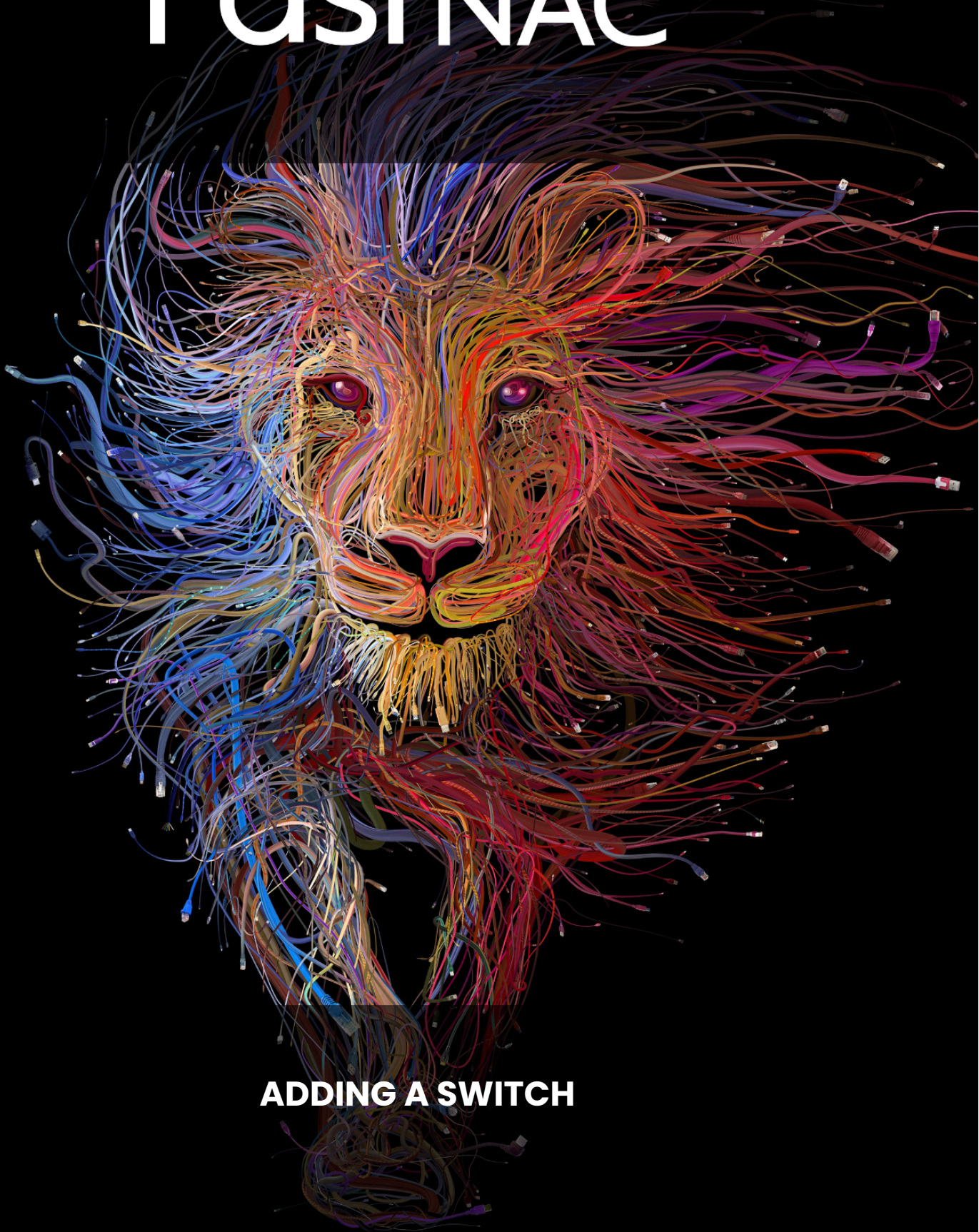


FastNAC



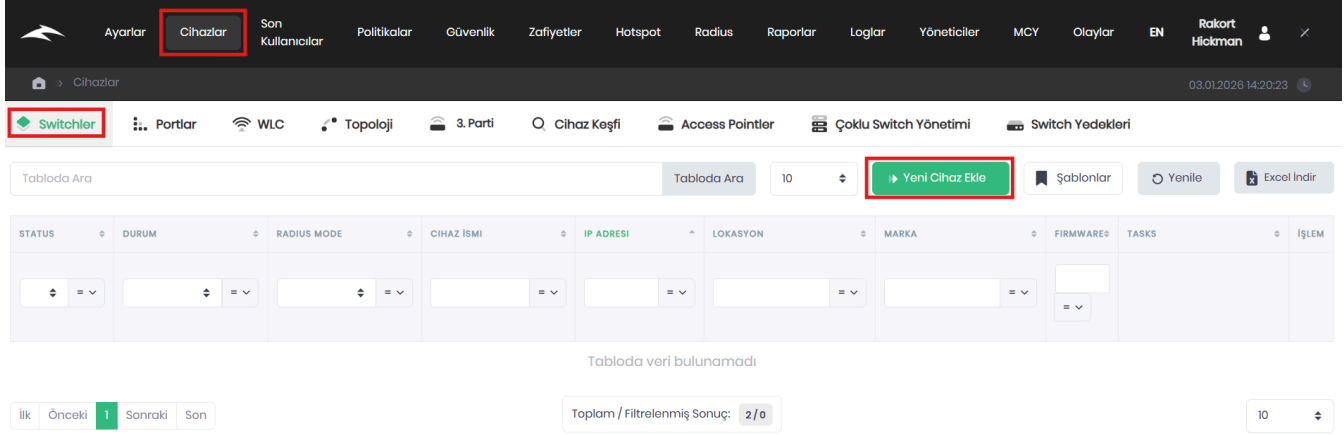
ADDING A SWITCH

Contents;

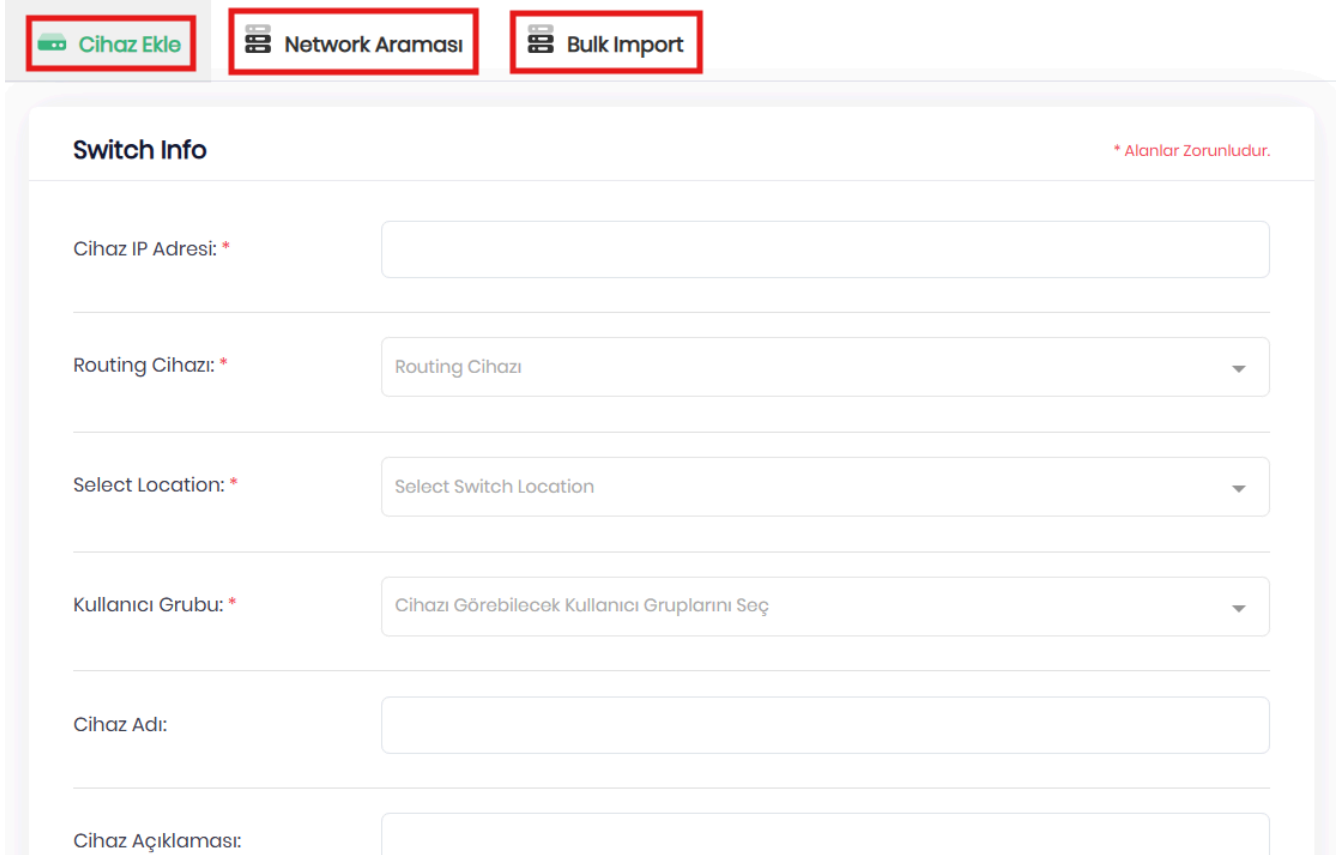
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1. Adding a Switch

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

Switch Info* Alanlar Zorunludur.

Cihaz IP Adresi: *

Routing Cihazı: *

Routing Cihazı

Select Location: *

Select Switch Location

Kullanıcı Grubu: *

Cihazı Görebilecek Kullanıcı Gruplarını Seç

Cihaz Adı:

Cihaz Açıklaması:

Auto Config:

☒ Açık

Switch konfigürasyonunun otomatik yapılmasını istiyorsanız bu ayarı açmanız gerekmektedir.

Device Discovery:

☒ Açık

Switch üzerinde bulunan cihazlar hakkında detaylı bilgiler alınır. Bu işlem switch ekleme süresini uzatabilir.

TACACS+:

☐ Kapalı

Switch üzerinde TACACS+ özelliğini kullanmak istiyorsanız bu ayarı açmalısınız. Auto Config özelliği açıkta TACACS+ için gerekli konfigürasyonlar otomatik yapılır.

IP Phone:

☐ Kapalı

Bu ayarı açarsanız IP Phone özelliklerini switch üzerinde kullanabilirsiniz.

Dummy MAC Sayısı: *

2

Possible Dummy için portun altındaki MAC sayısı (toplamda x tane)

Kontrol Aralığı

☐ Kapalı

MAC Notification desteği olmayan switchlerde bu ayarın açılması gerekmektedir.

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+:

☒ Açık

Switch üzerinde TACACS+ özelliğini kullanmak istiyorsanız bu ayarı açmalısınız. Auto Config özelliği açıksa TACACS+ için gerekli konfigürasyonlar otomatik yapılır.

Kimlik Bilgisi: *

TACACS+ kimlik cihazını seçin

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.

Kontrol Aralığı

☒ Açık

MAC Notification desteği olmayan switchlerde bu ayarın açılması gerekmektedir.

Kontrolün Zamanı: *

120

Kontrollerin ne kadar sıklıkla yapılacağını belirleyebilirsiniz. (Saniye cinsinden minimum 15 olmalıdır.)


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.

☐ "Ayarlar -> Bağlantılar" bölümünde belirtilen varsayılan SNMP bilgilerini kullanabilirsiniz. [Ayarlara Git ->](#)

SNMP Type: *

SNMP v2c

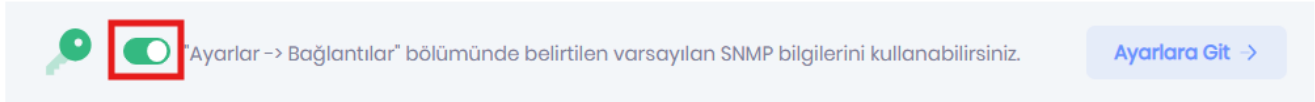
SNMPv2c Community: *

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.

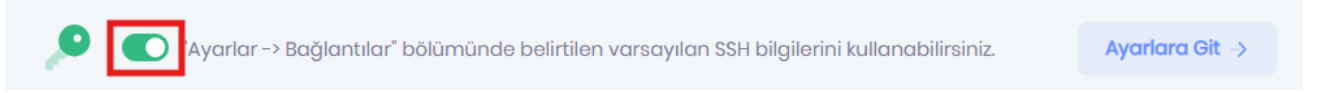
SSH Port: If a dedicated SSH port is used on the switches, this should be entered here. By default, it uses port 22.

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.

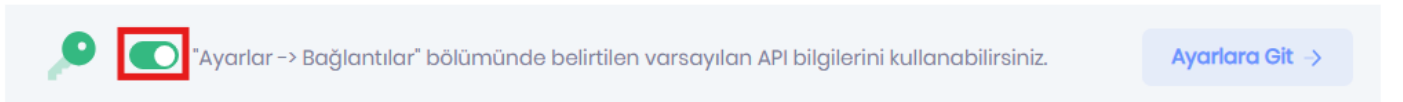
Once this setting is enabled, an input field will appear asking you to enter the password for Enable. You need to enter the relevant Enable password in this field.



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.

Cihaz Ekle

Network Araması

Bulk Import

Network Bloğu

* Alanlar Zorunludur.

Network Bloğu: *


Taranacak network bloğu için; 192.168.1.0/24 şeklinde format kullanın.

Connection Info

* Alanlar Zorunludur.

Connection Type: *

SNMP Connection



☐ "Ayarlar -> Bağlantılar" bölümünde belirtilen varsayılan SNMP bilgilerini kullanabilirsiniz.

[Ayarlara Git](#)

SNMP Connection ☐

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.

Network Bloğu

* Alanlar Zorunludur.

Network Bloğu: *

Taranacak network bloğu için; 192.168.1.0/24 şeklinde format kullanın.



1.2.1.2. Contact Information

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

Connection Info* Alanlar Zorunludur.

Connection Type: *

SNMP Connection



*Ayarlar -> Bağlantılar bölümünde belirtilen varsayılan SNMP bilgilerini kullanabilirsiniz.

Ayarlara Git ->

Sonraki ->

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.

Connection Info* Alanlar Zorunludur.

Connection Type: *


SNMP Connection



*Ayarlar -> Bağlantılar bölümünde belirtilen varsayılan SNMP bilgilerini kullanabilirsiniz.

Ayarlara Git ->

SNMP Connection



SNMP Type: *

SNMP v2c


SNMPv2c Community: *

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.

Connection Info* Alanlar Zorunludur.

Connection Type: * SSH Connection

☐ "Ayarlar -> Bağlantılar" bölümünde belirtilen varsayılan SSH bilgilerini kullanabilirsiniz.

Ayarılara Git ->

SSH Bağlantısı ☒


SSH Port: * 22

SSH Kullanıcı Adı: *

SSH Şifresi: *

Enable Status ☐ Kapalı

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.

 Lütfen bekleyin...

Network Araması yapılırken lütfen bekleyin ve tarayıcınızı veya tarayıcınızın bu sekmesini kapatmayın.
Arama işlemi bittiginde "İlerle" butonu aktif olacaktır.

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

İlerle >>

İptal Et

" **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.

Tabloda Ara

Temizle

#	IP ADRESİ	MARKA
<input type="checkbox"/>		
<input checked="" type="checkbox"/>	10.38.160	Cisco IOS Software, C3560CX Software (C3560CX-UNIVERSALK9-M), Version 15.2(7)E3, RELEASE SOFTWARE (f...
<input checked="" type="checkbox"/>	10.38.162	Cisco IOS Software, C2960X Software (C2960X-UNIVERSALK9-M), Version 15.2(7)E13, RELEASE SOFTWARE (fc...
<input checked="" type="checkbox"/>	10.38.163	Aruba JL677A 6100 24G CL4 4SFP+ Swch PL10.13.1040...
<input type="checkbox"/>	10.38.165	Aruba JL255A 2930F-24G-PoE+-4SFP+ Switch, revision WC.16.07.0003, ROM WC.16.01.0005 (/ws/swbuildm/re...
<input type="checkbox"/>	10.38.180	S5720-28X-LI-AC Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5720 ...
<input type="checkbox"/>	10.38.1238	Cisco IOS Software, Catalyst 4500 L3 Switch Software (cat4500-IPBASEK9-M), Version 15.0(2)SG11, RELE...

<< Önceki

Sonraki >>

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.

Tabloda Ara

Temizle

DURUM	IP ADRESİ	CIHAZ İSMİ	AÇIKLAMA	MARKA	MODEL
<input type="text"/>	<input type="text" value="IP Adresi"/>	<input type="text" value="Cihaz İsmi"/>	<input type="text" value="Açıklama"/>	<input type="text" value="Marka"/>	<input type="text" value="Model"/>
Görüntüleme Modu	10.38.178	Rakort-EX2300-SW	Juniper Networks, Inc. ex2300-	Juniper	Juniper EX2300-24T Switch

İlk Önceki 1 Sonraki Son

Toplam / Filtrelenmiş Sonuç: 1

50

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.

Genel Bilgiler

Routing Cihazı: *

Routing Cihazı

Select Location: *

Lokasyon listesinden seçebilirsiniz

Kullanıcı Grubu: *

Cihazı Görebilecek Kullanıcı Gruplarını Seç

Auto Config

☒ Açık

Switch konfigürasyonunun otomatik yapılmasını istiyorsanız bu ayarı açmanız gerekmektedir.

Device Discovery

☒ Açık

Switch üzerinde bulunan cihazlar hakkında detaylı bilgiler alınır. Bu işlem switch ekleme süresini uzatabilir.

TACACS+

☐ Kapalı

Switch üzerinde TACACS+ özelliğini kullanmak istiyorsanız bu ayarı açmalısınız. Auto Config özelliği açıkta TACACS+ için gerekli konfigürasyonlar otomatik yapılır.

IP Phone

☐ Kapalı

Bu ayarı açarsanız IP Phone özelliklerini switch üzerinde kullanabilirsiniz.

Dummy MAC Sayısı

2

Possible Dummy için portun altındaki MAC sayısı (toplamda x tane)

Kontrol Aralığı

☐ Kapalı

MAC Notification desteği olmayan switchlerde bu ayarın açılması gerekmektedir.

Selected Switches

◆ 10.38.162

◆ 10.38.165

◆ 10.38.180

◀ Önceki

▶ Add Selected Switches

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+:



Switch üzerinde TACACS+ özelliğini kullanmak istiyorsanız bu ayarı açmalısınız. Auto Config özelliği açıksa TACACS+ için gerekli konfigürasyonlar otomatik yapılır.

Kimlik Bilgisi: *

TACACS+ kimlik cihazını seçin

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.

Kontrol Aralığı



MAC Notification desteği olmayan switchlerde bu ayarın açılması gerekmektedir.

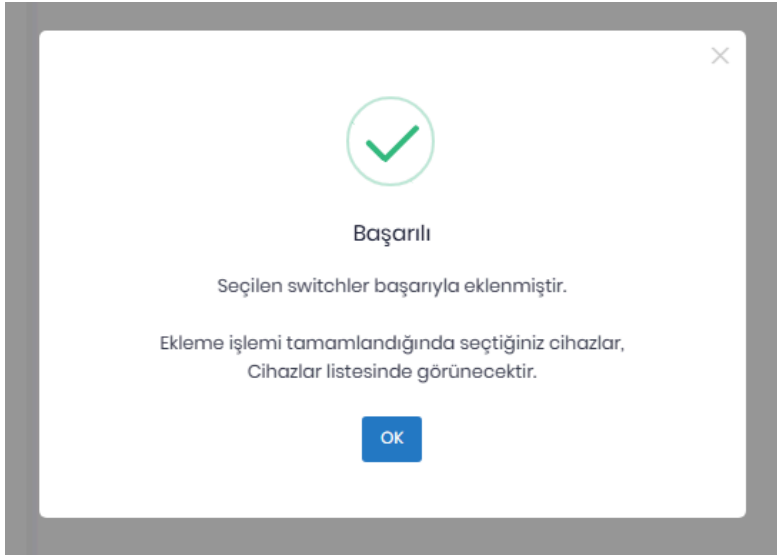
Kontrolün Zamanı: *

120

Kontrollerin ne kadar sıklıkla yapılacağını belirleyebilirsiniz. (Saniye cinsinden minimum 15 olmalıdır.)

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.



STATUS	DURUM	RADIUS MODE	CIHAZ İSMİ	IP ADRESİ	LOKASYON	MARKA	FIRMWARE	TASKS	İŞLEM
	Eklenmiş	-	Cisco_24p.veribagi.com Cisco IOS Software, C2960X Sof	10.38.182 10.38.182/24	Genel	CISCO WS-C2960X-24P-E	flash24p-c2960x-universalk9-m...	İzlen	İzlen İzlen İzlen
	Eklenmiş	-	aruba_65 Aruba J.255A 2830F-24G- PoE-4S	10.38.185 10.38.185/24	Genel	aruba Aruba J.255A Fixed 2...	/ws/swbuldm/rel_xanadu_zeus_q...	İzlen	İzlen İzlen İzlen
	Eklenmiş	-	Rakort-EX2300-SW Juniper Networks, Inc. ex2300-	10.38.178 10.38.178/24	Genel	JUNIPER Juniper EX2300-24T-S...	15.X53-D51	İzlen	İzlen İzlen İzlen
	Eklenmiş	-	test_huawei S5720-25A-Li-AC Huawei Versat	10.38.180 10.38.180/24	Genel	HUAWEI S5720-25X-Li-AC	s5720i-v200r02lc00spc100.cc	SNMP Completed Discovery Completed Auto Config In Progress	İzlen İzlen İzlen

İlk Önceki 1 Sonraki Son

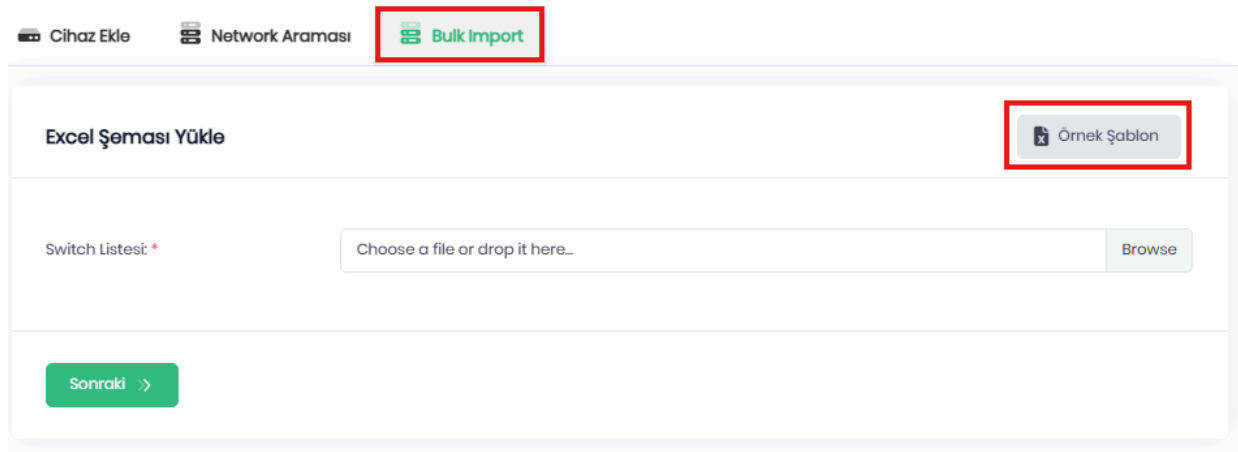
Toplam / Filtrelenmiş Sonuç: 4 / 4

10

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.



Dikkat Edilmesi Gerekenler

!

routing_ipaddr'nin FastNAC sistemine ekli olması gerekmektedir.

!

location_name'in FastNAC sistemine ekli olması gerekmektedir.

!

user_groups'un FastNAC sistemine ekli olması gerekmektedir.

!

Cihaz keşfi yapılmasını istediğiniz switchlerin **discovery_device** kolonuna **y** yazmanız gerekmektedir.

!

Auto Config yapılmasını istediğiniz switchlerin **auto_config** kolonuna **y** yazmanız gerekmektedir.

!

Possible Dummy için portun altındaki MAC sayısını **dummy_count** kolonuna yazmanız gerekmektedir.

!

SNMP bilgileri için aşağıdaki alanlara dikkat ediniz.

SNMP Versiyonları:

▪ SNMPv1 için 1

▪ SNMPv2c için 2

▪ SNMPv3 için 3

SNMPv3 Tipleri:

▪ NoAuthNoPriv

▪ authNoPriv

▪ authPriv

SNMPv3 Authtype:

▪ MD5

▪ SHA128

▪ SHA384

▪ SHA512

SNMPv3 Privtype:

▪ DES

▪ AES128

▪ AES192

▪ AES256

Örnek Excel Şemasını İndir

Kapat

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.

Excel Şeması Yükle

Örnek Şablon

Switch Listesi: *

Choose a file or drop it here...

Browse

Sonraki >>

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.

Excel Şeması Yükle

Örnek Şablon

Switch Listesi: *

bulk_switch_list.csv

Browse

İlerle >

İptal Et

" **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.

10.38.10/24 - Network Bloğunda Bulunan Switchler

Tabloda Ara

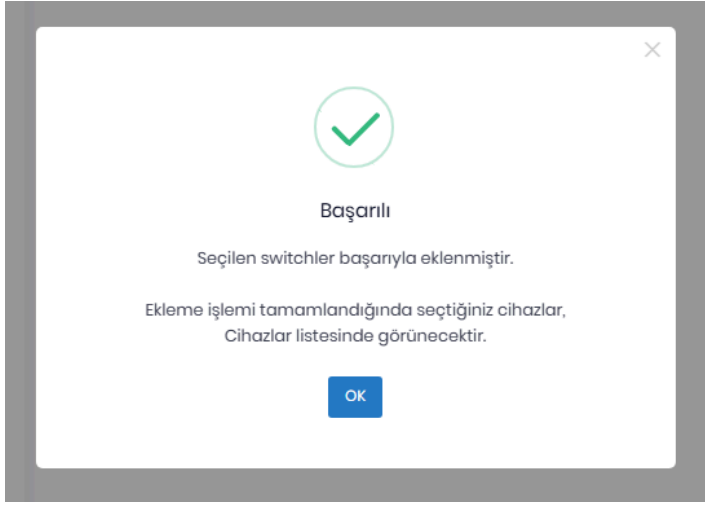
Temizle

#	IP ADRESİ	MARKA
<input type="checkbox"/>		
<input checked="" type="checkbox"/>	10.38.160	Cisco IOS Software, C3560CX Software (C3560CX-UNIVERSALK9-M), Version 15.2(7)E3, RELEASE SOFTWARE (f...
<input checked="" type="checkbox"/>	10.38.162	Cisco IOS Software, C2960X Software (C2960X-UNIVERSALK9-M), Version 15.2(7)E13, RELEASE SOFTWARE (fc...
<input checked="" type="checkbox"/>	10.38.163	Aruba JL677A 6100 24G CL4 4SFP+ Swch PL10.13.1040...
<input type="checkbox"/>	10.38.165	Aruba JL255A 2930F-24G-PoE+-4SFP+ Switch, revision WC.16.07.0003, ROM WC.16.01.0005 (/ws/swbuildm/re...
<input type="checkbox"/>	10.38.180	S5720-28X-LI-AC Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5720 ...
<input type="checkbox"/>	10.38.1238	Cisco IOS Software, Catalyst 4500 L3 Switch Software (cat4500-IPBASEK9-M), Version 15.0(2)SG11, RELE...

<< Önceki

Sonraki >>

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



STATUS	DURUM	RADIUS MODE	CIHAZ İSMİ	IP ADRESİ	LOKASYON	MARKA	FIRMWARE	TASKS	İŞLEM
	<div>Özellikle Modu</div>	-	Cisco_24p.veribagi.com Cisco IOS Software, C2900K Sof	10.38.1.62 10.38.1.62	Genel	cisco WS-C2900K-24PS-L	flash24p-c2900k-universalk9-m_	<div>İzlen</div>	> İzlen İzlen
	<div>Özellikle Modu</div>	-	aruba_85 Aruba J1255A 2830F-24G- PoE+4S	10.38.1.65 10.38.1.65	Genel	aruba Aruba J1255A Fixed 2...	/ws/swbuildm/rel_xanadu_zeus_q_	<div>İzlen</div>	> İzlen İzlen
	<div>Core Mod</div>	-	Rakort-EX2300-SW Juniper Networks, Inc. ex2300-	10.38.1.78 10.38.1.78	Genel	juniper Juniper EX2300-0AT1 S...	15.D63-D61	<div>İzlen</div>	> İzlen İzlen
	<div>Özellikle Modu</div>	-	test_huawei HUAWEI S7700-64K-10-AC Huawei Versat	10.38.1.80 10.38.1.80	Genel	huawei S7700-64K-10-AC	s57208-v200r02c00spc100.co	<div>SNMP Completed</div> <div>Discovery Completed</div> <div>Auto Config In Progress</div>	> İzlen İzlen

İlk Önceki 1 Sonraki Son

Toplam / Filtrelenmiş Sonuç: 4/4

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