

Ruckus SmartZone

U primjeru konfiguracije koriste se odvojeni management i klijentski VLAN:

- AP MGMT (VLAN 100)
- eduroam (VLAN 411)

Switchport prema AP-u konfiguriran je na sljedeći način:

- UNTAGGED za AP MGMT
- TAGGED za eduroam i AP MGMT

Adresa RADIUS poslužitelja u primjeru: 161.53.2.74

RADIUS portovi u primjeru: 1812 i 1813

Management mreža za AP u primjeru: 10.10.10.0/24

Mreža za eduroam korisnike u primjeru: 10.111.0.0/16

Obje mreže imaju izlaz prema Internetu.

Korištena oprema

Ruckus R310 (110.0.0.0.683)

Ruckus Virtual SmartZone (5.1.1.0.598)

Konfiguracija

Ruckus SmartZone je cloud managed rješenje koje za konfiguraciju i upravljanje zahtijeva povezanost sa privatnim ili javnim oblakom. Detaljan popis portova koje je potrebno propustiti između AP-a i clouda [nalazi se na stranici proizvođača](#).

CLI

Ukoliko u management VLAN-u ne postoji DHCP, potrebno je ručno podesiti mrežne postavke AP-a

1. Konfiguracija mrežnih postavki AP-a:

```
set ipaddr wan 10.10.10.150 255.255.255.0 10.10.10.1
```

2. Konfiguracija SmartZone adrese

```
set scg ip AAA.BBB.CCC.DDD
reboot
```

GUI

1. Povežite se na SmartZone i kliknite na karticu **Access Points**
2. Unutar svoje Domene, kreirajte novu Zonu klikom na **+**

Access Points (6) 2 online 0 flagged 4 offline

System - SRCE - RuckusAP (C8:03:F5:15:19:60)

MAC Address	AP Name	Status	Alarm	IP Address	Total Traffic (1hr)	Clients	Latency (2.4G)	Latency (5G)
C8:03:F5:15:19:60	RuckusAP	Online	0	10.10.10.150	N/A	0	0	0

1 records

General Configuration Health Traffic Alarm Event Clients Wired Clients GPS Location

AP Info

AP MAC Address: C8:03:F5:15:19:60 Firmware Version: 5.1.1.0.2150

3. Konfigurirajte Zonu

Configure Group

Name: SRCE Description:

Type: ☒ Zone ☐ AP Group

Parent Group: SRCE

Configuration

General Options

AP Firmware: 5.1.1.0.2150

Country Code: Croatia

Location: (example: Ruckus HQ)

Location Additional Information: (example: 350 W Java Dr, Sunnyvale, CA, USA)

GPS Coordinates: Latitude: Longitude: (example: 37.411272, -122.019616)

OK Cancel

Unesite ime zone pod **General Options > Name**

Odaberite Croatia pod **General Options > Country Code**

Kreirajte novi korisnički račun za pristup AP-u pod **General Options > AP Admin Logon**

Odaberite isključivo kanale 1, 6 i 11 pod **Radio Options > Channel Range (2.4G)**

Postavite širinu kanala na 20 pod **Radio Options > Radio Options (2.4 GHz) > Channelization**

Za završetak kreiranja Zone kliknite na **OK**

4. Prebacite AP iz Staging Zone u novokreiranu Zonu klikom na **Move**

Access Points (6) 2 online 0 flagged 4 offline

System - RuckusAP (C8:03:F5:15:19:60)

MAC Address	AP Name	Status	Alarm	IP Address	Total Traffic (1hr)	Clients	Latency (2.4G)	Latency (5G)
4C:B1:CD:02:81:20	AP4 kolonija	Offline	0	192.168.11.42	N/A	0	0	0
54:EC:2F:15:20:C0	RuckusAP	Offline	0	172.16.3.16	N/A	0	0	0
54:EC:2F:39:A7:20	RuckusAP	Offline	0	172.16.3.15	N/A	0	0	0
C8:03:F5:15:19:60	RuckusAP	Online	0	10.10.10.150	N/A	0	0	0
EC:58:EA:18:02:D0	RuckusAP	Offline	0	192.168.5.42	N/A	0	0	0
EC:58:EA:22:9F:60	DZ_in510_1	Online	0	192.168.0.1	N/A	0	0	0

6 records

General Configuration Health Traffic Alarm Event Clients Wired Clients GPS Location

AP Info

AP MAC Address: C8:03:F5:15:19:60 Firmware Version: 5.1.1.0.2150

5. Klikom na karticu **Services & Profiles > Authentication > Create** kreirajte postavke svog RADIUS poslužitelja

Create AAA Server

General Options

Name: gatekeeper-auth

Description:

Type: ☒ RADIUS ☐ Active Directory ☐ LDAP

Backup RADIUS: ☐ Enable Secondary Server

Primary Server

IP Address: 161.53.2.74

Port: 1812

Shared Secret:

Confirm Secret:

User Role Mapping

+ Create | Configure | Delete

Group Attribute Value	User Role	User Traffic Profile

OK Cancel

Unesite ime poslužitelja pod **General Options > Name**

Odaberite tip poslužitelja kao **RADIUS** pod **General Options > Type**

Unesite IP adresu poslužitelja pod **Primary Server > IP Address**

Unesite RADIUS authentication port pod **Primary Server > Port**

Unesite tajnu lozinku za vašeg RADIUS klijenta pod **Primary Server > Shared Secret**

Ponovite tajnu lozinku za vašeg RADIUS klijenta pod **Primary Server > Shared Secret**

Završite kreiranje RADIUS poslužitelja klikom na **OK**

- Klikom na karticu **Services & Profiles > Accounting > Create** kreirajte postavke svog RADIUS poslužitelja

Edit Zone AAA Server: gatekeeper-acct

General Options

Name: gatekeeper-acct

Description:

Type: ☒ RADIUS Accounting ☐ RADIUS Authentication

Backup RADIUS: ☐ Enable Secondary Server

Primary Server

IP Address: 161.53.2.74

Port: 1813

Shared Secret:

Confirm Secret:

User Role Mapping

+ Create | Configure | Delete

Group Attribute Value	User Role	User Traffic Profile

OK Cancel

Unesite ime poslužitelja pod **General Options > Name**

Odaberite tip poslužitelja kao **RADIUS Accounting** pod **General Options > Type**

Unesite IP adresu poslužitelja pod **Primary Server > IP Address**

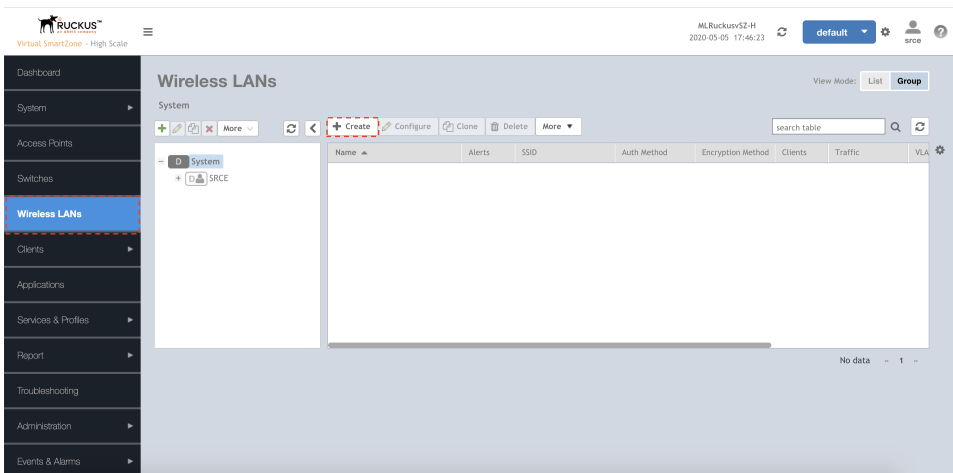
Unesite RADIUS accounting port pod **Primary Server > Port**

Unesite tajnu lozinku za vašeg RADIUS klijenta pod **Primary Server > Shared Secret**

Ponovite tajnu lozinku za vašeg RADIUS klijenta pod **Primary Server > Shared Secret**

Završite kreiranje RADIUS poslužitelja klikom na **OK**

- Klikom na karticu **Wireless LANs > Create** kreirajte postavke za novi SSID



8. Podesite postavke za eduroam SSID

Unesite ime eduroam za naziv profila pod **General Options > Name**

Unesite naziv eduroam kao ime mreže pod **General Options > SSID**

Odaberite konfiguriranu zonu pod **General Options > Zone**

Odaberite konfiguriranu AP grupu pod **General Options > WLAN Group**

Kao način autentikacije pod **Authentication Options > Authentication Type** odaberite **Standard usage**

Kao metodu autentikacije pod **Authentication Options > Method** odaberite **802.1X EAP**

Kao metodu enkripcije pod **Encryption Options > Method** odaberite **WPA2**

Kao algoritam enkripcije pod **Encryption Options > Algorithm** odaberite **AES**

Odaberite ranije kreirani RADIUS authentication poslužitelj pod **Authentication and Accounting Services > Authentication Service**

Odaberite ranije kreirani RADIUS accounting poslužitelj pod **Authentication and Accounting Services > Accounting Services**

Uključite **Options > Wireless Client Isolation** za međusobnu izolaciju klijenata na bežičnoj mreži

Unesite **VLAN ID** od vaše eduroam mreže pod **Advanced Options > VLAN ID**

Isključite **Advanced Options > AAA Override**

Završite kreiranje eduroam SSID klikom na **OK**

9. Nakon nakoliko minuta na kartici **Clients > Wireless Clients** provjerite uspješnu autentikaciju na AP

Wireless Clients 1 online View Mode: Non TTG TTG

System: android-9d2f99848004b995

Deauthorize Block Disconnect More

search table

Hostname	OS Type	IP Address	MAC Address	WLAN	AP Name	AP MAC	Traffic (Session)
android-9d2f99848004b995	Android	10.111.198.52 / ::	00:8C:30:00:C2:90	eduroam	RuckusAP	CB:03:F5:15:19:60	N/A

1 records - 1 -

General Health Traffic Event

Client Info

Host Name android-9d2f99848004b995 VLAN 411

10. Kreirajte pravilo za automatsku registraciju i propagaciju novih AP-ova pod karticom **System > AP Settings > AP Registration**

AP Registration Critical AP Tagging Tunnel UDP Port Country Code AP Number Allocation

Create Configure Delete Clone Update Priorities Up Down

search table

Priority	Rule Type	Rule Description	Rule Parameters	Zone Name
1	Subnet	SRCE	Network: 10.10.10.0, Mask: 255.255.255.0	SRCE

1 records - 1 -

Priority 1

Rule Type Subnet

Description SRCE

Rule Parameters Network: 10.10.10.0, Mask: 255.255.255.0

Zone Name SRCE

Created By srcce

Created On 2020/05/04 09:18:06

11. Spojite ostale AP-ove i podesite detaljne postavke sustava prema dizajnu bežične mreže i prema vlastitim potrebama.