

Mesh

- [MESH](#)
- [MESH EMS](#)
- [MESH WEB-](#)
- [MESH CLI](#)

MESH

1. .
2. MESH (: WEP-2ac-1.X.0.X-MESH.tar.gz).
 , . ftp- "__1.21.0.41-MESH"

<ftp://ftp.eltex.org/>
Login: wifiguest
Pass: GuestWiFi

3. , MESH, ().



:
SoftWLC - 1.11 (EMS 3.15)
- 1.14.0

4. , (Root-/), . :
 - a. MESH EMS;
 - b. MESH WEB-;
 - c. MESH CLI.
5. MESH, , .



WEP/WOP-12ac MESH , 2.4 (Radio1) 5 (Radio2).
WEP/WOP-2ac MESH 5 (Radio1).



, MESH, .

MESH EMS

EMS (), (Root) , EMS. : , .
, EMS: [v1.21_EMS](#).

, :

1. **Mesh**



Mesh , EMS ,



Синхронизация



Редактировать

2. Autopeer Status Off ()



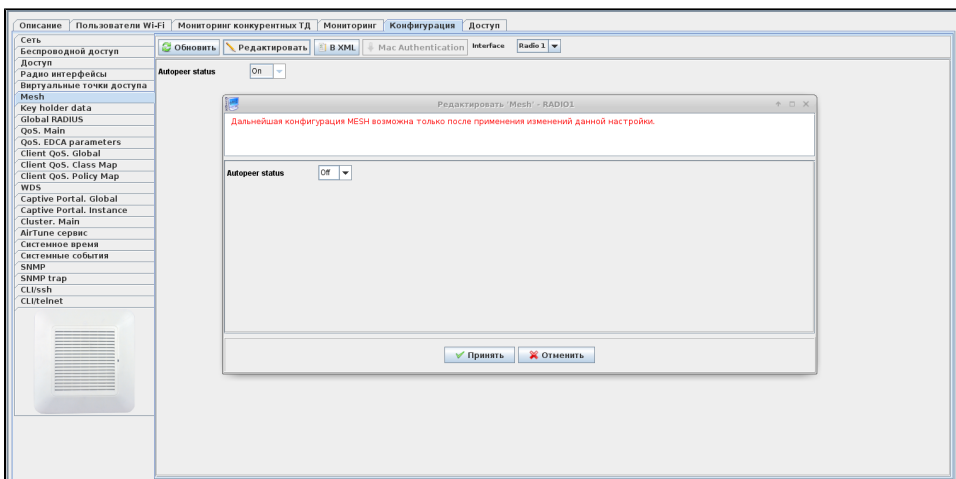
Принять



, MESH WEP/WOP-12ac, , MESH .
WEP/WOP-2ac MESH 5 (Radio1)

Radio 1 ▼

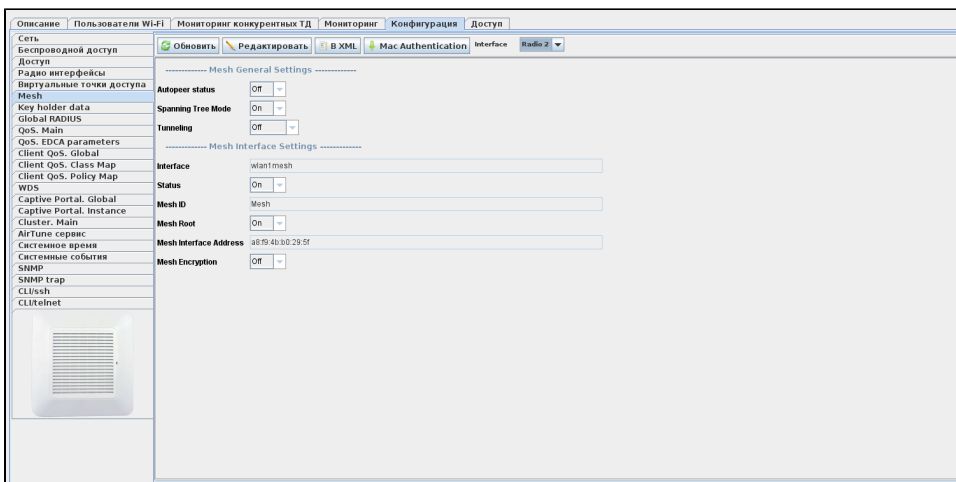
: Radio1 - 2.4 ; Radio2 - 5 .



3.



Root- MESH GRE-. GRE- Tunneling: Root- Master; Slave.



, MESH ().

, (Root), , Root (Access Request).

Root MESH . :

1. Mesh



2. Access Request MAC- , MESH . : MESH (Allowed) (Blocked). :
 - a. Access Request MAC- , MESH Access, Access Request;
 - b. , MESH , MAC- Access Request Block.



MESH Allowed

Обновить

Редактировать

Mac Authentication

Autopeer status

Off

Status

On

Peer's list

Allowed

a8:f9:4b:16:ef:bf
a8:f9:4b:b0:5f:df

Delete From Access List

Blocked

Delete From Block List

Access Request

a8:f9:4b:b4:53:7f
a8:f9:4b:b7:cc:8f

Access

Block

Add MAC

Access

Block

Обновить

Заккрыть

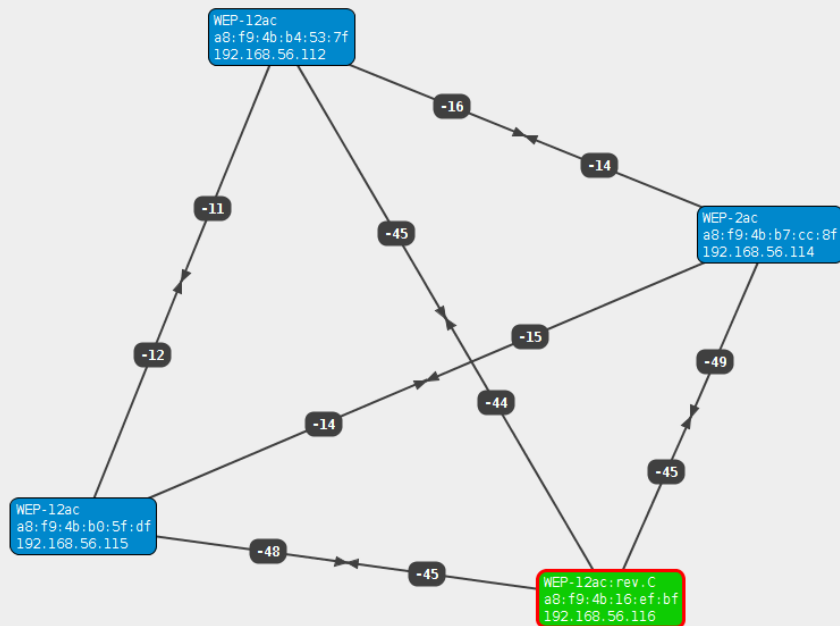
MESH . Root, DHCP , DHCP 43 10, , "" . 43 10 DHCP , . 43 DHCP [v1.21_43](#) [DHCP](#)

EMS MESH . **Mesh Network.**

MESH, Ping .

Link status:

LISTEN
ESTAB



MESH WEB-

MESH :

1. WEB , (Root) MESH .
2. **Manage Mesh.**
3. Root- MESH (**Autopeer Status** Off) **Update.**

Configure Mesh access point

Mesh General Settings

Autopeer Status Off ▾

Click "Update" to save the new settings.

Update

4. , , :



, MESH WEP/WOP-12ac, , MESH . **Radio:** Radio1 - 2.4 ; Radio2 - 5 .
WEP/WOP-2ac MESH 5 (Radio1)



Root- MESH GRE- GRE- Tunneling: Root- Master; Slave.

Configure Mesh access point

Mesh General Settings

Autopeer Status Off ▼

Spanning Tree Mode On ▼

Tunneling Off ▼

Mesh Interface Settings

Radio 2 ▼

Interface wlan1mesh

Status Up ▼

Mesh ID Mesh

Mesh Encryption Off ▼

Mesh Root On ▼

Mesh Root Address A8:F9:4B:B0:29:5F

Mesh Interface Address A8:F9:4B:B0:29:5F

5. Update .

(Root), MESH ().

, (Root), , Root (Access Request).

Root MESH . :

1. **Manage Mesh.**
2. **Access Request** MAC- , MESH . : MESH (**Allowed**) (**Blocked**):
 - a. **Access Request** MAC- , MESH **Access**, **Access Request**;
 - b. , MESH , MAC- **Access Request** **Block**.



MESH **Allowed** .

Mesh Mac Authentication

Peer's list

Allowed

a8:f9:4b:16:ef:bf
a8:f9:4b:b0:5f:df
a8:f9:4b:b7:cc:8f
a8:f9:4b:b4:53:7f

Delete From Access List

Blocked

Delete From Block List

Access Request

Access

Block

Add mac

Access

Block

Click "Update" to save the new settings.

Update

Update

MESH Root, DHCP

Manage Mesh Mesh Monitoring MESH, , MESH

i

, Auto Update

Mesh Monitoring

Mesh Neighbor Nodes

[Stats Update](#)[Auto Update](#)

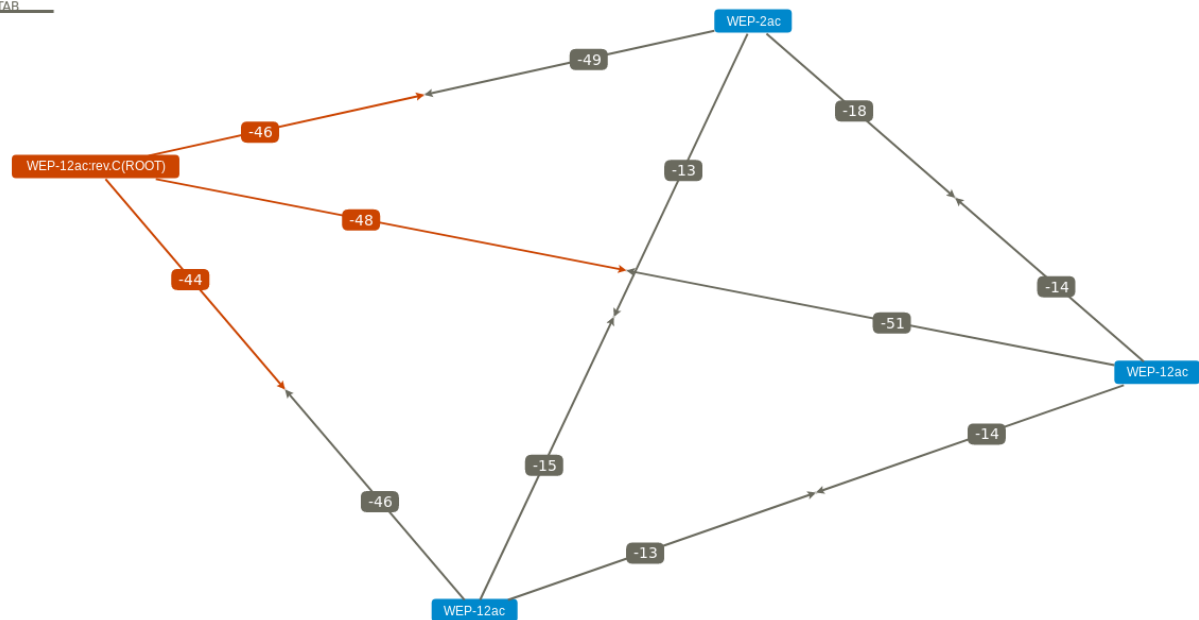
MAC Address	Link State	RSSI	Uptime	Tx Total	Rx Total	Tx Retry Count	Rx Retried Count	Tx Actual Rate	Rx Actual Rate
a8:f9:4b:b7:cc:8f	ESTAB	-46	01:19:58	268274	75360	83085 (31.0%)	6723 (8.9%)	1 Kbits/sec	0 Kbits/sec
a8:f9:4b:b0:5f:df	ESTAB	-48	01:19:59	634302	161236	85244 (13.4%)	12904 (8.0%)	0 Kbits/sec	0 Kbits/sec
a8:f9:4b:b4:53:7f	ESTAB	-44	14:13:42	622430	151387	82495 (13.3%)	14367 (9.5%)	0 Kbits/sec	0 Kbits/sec

Mesh Network

[Update Graph](#)[Auto Update](#)

MAC Address	Device Name	IP Address	Firmware Version	Last Update(secs ago)
a8:f9:4b:16:ef:bf	WEP-12ac:rev.C(ROOT)	192.168.56.116	1.14.0.88-mesh_test-741906c-MESH	0
a8:f9:4b:b0:5f:df	WEP-12ac	192.168.56.115	1.14.0.88-mesh_test-741906c-MESH	1
a8:f9:4b:b4:53:7f	WEP-12ac	192.168.56.112	1.14.0.88-mesh_test-741906c-MESH	2
a8:f9:4b:b7:cc:8f	WEP-2ac	192.168.56.114	1.14.0.88-mesh_test-741906c-MESH	5

Link status:

LISTENESTABWEB : [WEB- WEP-2ac](#)

MESH CLI

MESH CLI:

1. telnet/ssh/console , (Root).
2. :

```
set radio wlanX channel-policy static
set radio wlanX static-channel 149
```

3. MESH:



, MESH WEP/WOP-12ac, MESH 2.4 (wlan0mesh), 5 (wlan1mesh).
WEP/WOP-2ac MESH 5 (wlan0mesh)

```
set mesh-autopeer status down
set interface wlanXmesh mesh-id "MESH_FP"
set interface wlanXmesh mesh-root up
set interface wlanXmesh status up
set bridge brtrunk stp on
```

4. Root , MESH.

5. Root MESH :

```
get mesh-root
```

6. mac- , , ,:

name	mac	radio
access_list	e0:d9:e3:91:48:7f	
access_list	e0:d9:e3:91:48:6f	
request_list	a8:f9:4b:b0:29:5f	wlan0

access_list - , "" ;

block_list - , "" ;

request_list - , .

7. , MESH:

```
add mesh-root access_list mac a8:f9:4b:b0:29:5f - MESH ;
add mesh-root block_list mac e0:d9:e3:91:48:6f - MESH ;
save-running -
```

: MESH , , IP-address , , :

```
get mesh-root-monitor ( Root )
```


Property	Value

mac	e0:d9:e3:91:48:0f
device	WEP-2ac
last-update	0
ip	100.70.0.11
firmware-version	1.17.0.3364-MESH
peers-count	2
peers	mac e0:d9:e3:4f:bf:ef status ESTAB rssi -54 last_rx 190 mac e0:d9:e3:52:b7:9f status ESTAB rssi -50 last_rx 40

mac	e0:d9:e3:52:b7:9f
device	WEP-12ac:rev.C
last-update	1
ip	100.70.0.10
firmware-version	1.17.0.3364-MESH
peers-count	2
peers	mac e0:d9:e3:91:48:0f status ESTAB rssi -41 last_rx 10 mac e0:d9:e3:4f:bf:ef status ESTAB rssi -41 last_rx 90

mac	e0:d9:e3:4f:bf:ef
device	WEP-2ac
last-update	6
ip	100.70.0.3
firmware-version	1.17.0.3364-MESH
peers-count	2
peers	mac e0:d9:e3:52:b7:9f status ESTAB rssi -41 last_rx 20 mac e0:d9:e3:91:48:0f status ESTAB rssi -44 last_rx 100

get mesh-root-monitor-peers (Root)

from	to	status	rssi	last-rx

e0:d9:e3:91:48:0f	e0:d9:e3:4f:bf:ef	ESTAB	-54	40
e0:d9:e3:91:48:0f	e0:d9:e3:52:b7:9f	ESTAB	-49	30
e0:d9:e3:52:b7:9f	e0:d9:e3:91:48:0f	ESTAB	-41	80
e0:d9:e3:52:b7:9f	e0:d9:e3:4f:bf:ef	ESTAB	-41	50
e0:d9:e3:4f:bf:ef	e0:d9:e3:52:b7:9f	ESTAB	-41	80
e0:d9:e3:4f:bf:ef	e0:d9:e3:91:48:0f	ESTAB	-44	40

get mesh-nodes ()

Property	Value
station	e0:d9:e3:4f:bf:ef
mesh-id	Mesh_FP
state	ESTAB
rss	-54
uptime	00:01:18
rx-actual-rate	0 Kbits/sec
tx-actual-rate	0 Kbits/sec

Property	Value
station	e0:d9:e3:52:b7:9f
mesh-id	Mesh_FP
state	ESTAB
rss	-49
uptime	00:01:28
rx-actual-rate	1 Kbits/sec
tx-actual-rate	6 Kbits/sec