

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 ()



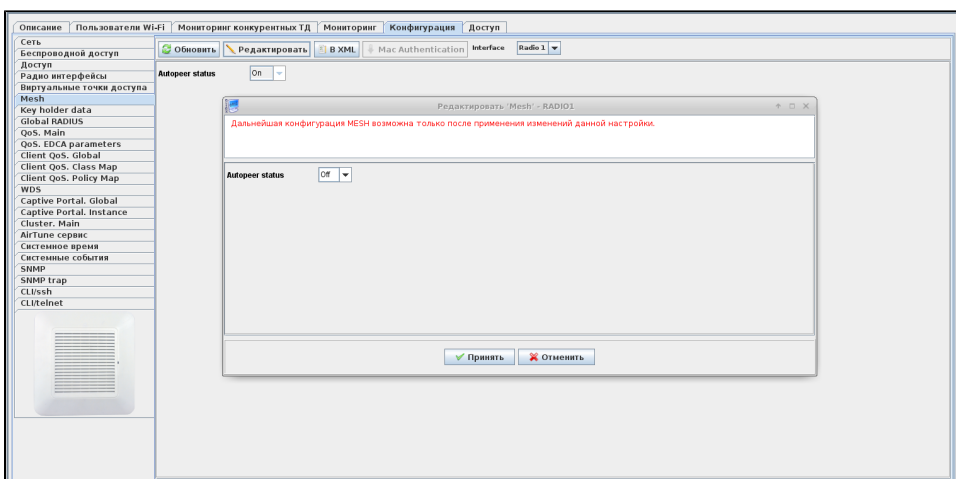
Принять



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

Radio 1 ▼

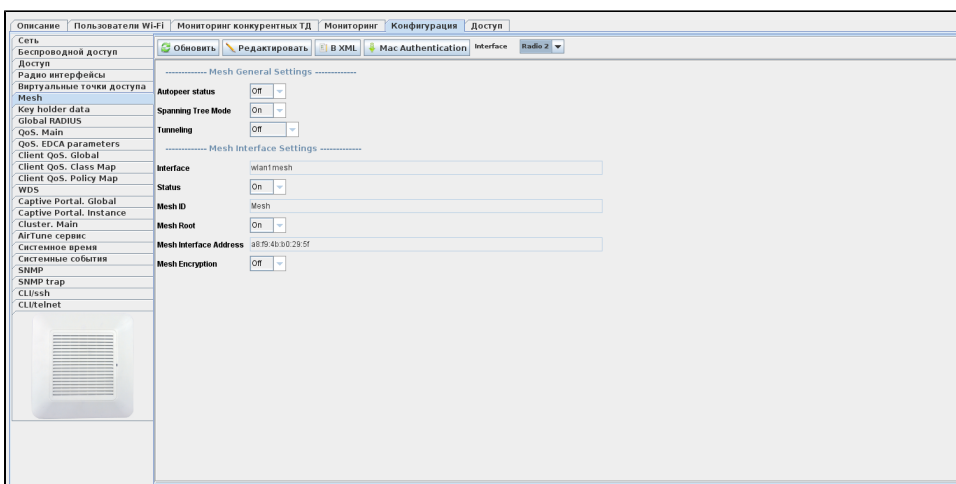
: Radio1 - 2.4 ; Radio2 - 5 .



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

Закреть

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

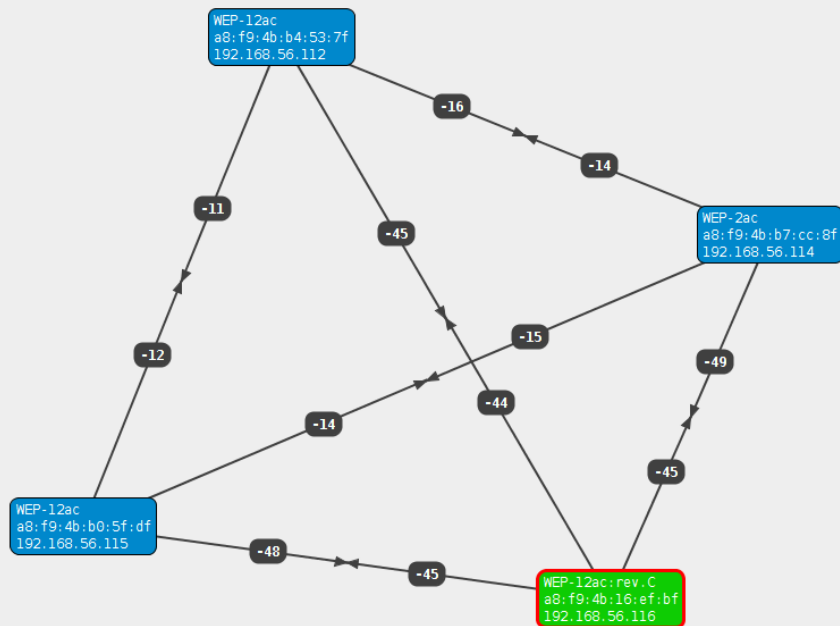
EMS MESH . Mesh Network.

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 AccessBlock
--	--	--

Add mac

Access

Block

Click "Update" to save the new settings.

Update

Update

MESH Root, DHCP

Manage Mesh Mesh Monitoring MESH, , MESH

 , Auto Update

Mesh Monitoring

Mesh Neighbor Nodes

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

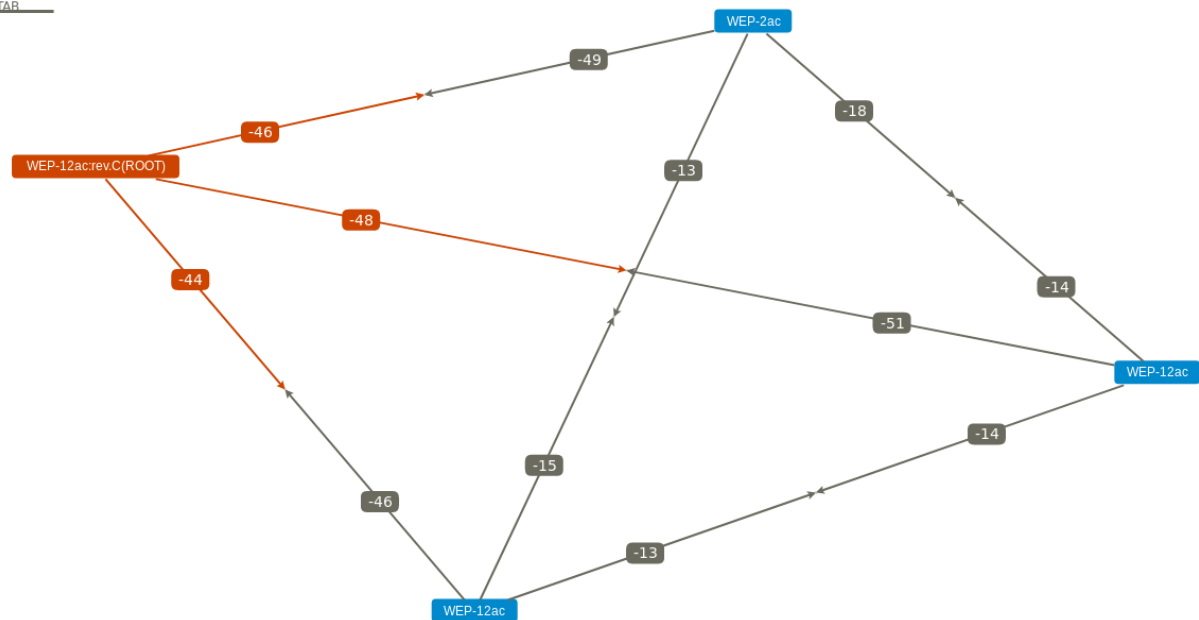
MAC Address	Link State	RSSI	Uptime	Tx Total	Rx Total	Tx Retry Count	Rx Retried Count	Tx Actual Rate	Rx Actual Rate
a8:f9:4b:b7:cc:8f	ESTAB	-46	01:19:58	268274	75360	83085 (31.0%)	6723 (8.9%)	1 Kbits/sec	0 Kbits/sec
a8:f9:4b:b0:5f:df	ESTAB	-48	01:19:59	634302	161236	85244 (13.4%)	12904 (8.0%)	0 Kbits/sec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