

v1.29_Quickstart Wi-Fi Eltex

- SoftWLC
- ESR
 - ESR L2 (WiFi L2)
 - ESR L3 (WiFi L3)
- ESR
- DHCP-43
-
- SoftWLC
-
- SSID Enterprise
- SSID

Wi-Fi Eltex , . ESR SSID .

SoftWLC - Wi-Fi, . SoftWLC Wi-Fi, Eltex. , .

SoftWLC

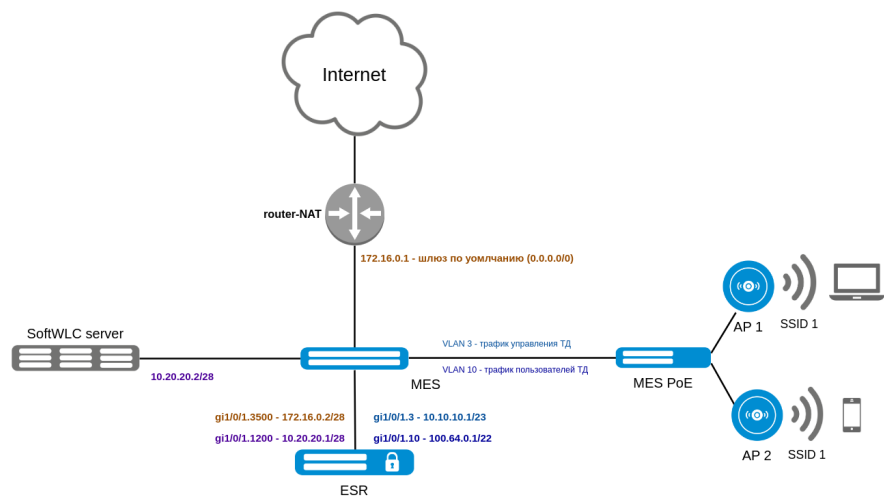
- **EMS-**
 -
 - SNMP-
 - ;
 -
 -
 -
 - ,
 - , (RRD)
- **WEB**
 - , WEB- Hotspot-
- **B2B**
 - Wi-Fi
- **Database**
 - Mysql
 - MongoDB
 - Yandex.ClickHouse ()
- **RADIUS-**
 - WPA-enterprise
- **DHCP-**
 - () IP- 43 (11 12) , GRE ESR
 - (management,) IP- 43 (10 13) ,
 - IP- Wi-Fi ,
 - DHCP 82, 60 giAddrField
- **APB-**
 - , WEB-
- **Notification Gateway**
 - (SMS-, Call-) SMTP, SMPP, HTTP, WebSocket
- **PCRF**
 - , Wi-Fi , BRAS (,)
 -
 - Wi-Fi
 - Wi-Fi , WPA-enterprise BRAS
- **Airtune**
 -
- **NBI**
 - SoftWLC SOAP
 -
 -
 - PCRF
 - TLS
- **ESR**

SSID VLAN, VLAN . . . ESR, , MAC-Wi-Fi MAC- , . , VLAN , , .

ESR

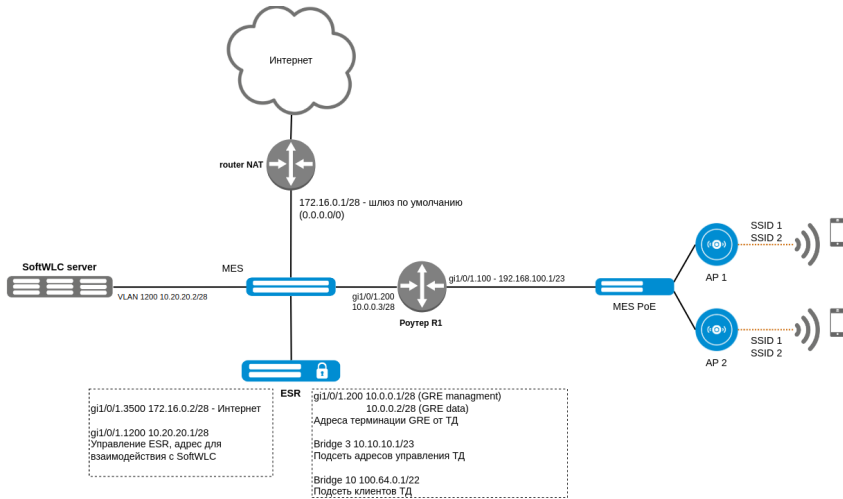
ESR L2 (WiFi L2)

, L2, , VLAN VLAN SSID. SSID VLAN. VLAN ESR. WiFi L2.



ESR L3 (WiFi L3)

VLAN . L2 ESR. L3 . , L3 ESR, SoftWLC . L2 GRE (EoGRE) , VLAN ESR - VLAN L3 , DHCP-relay, , 43
ESR GRE . ESR , wireless-controller. WiFi L3.



ESR

ESR VRRP, "Active-Standby";
, ESR , ESR,
ESR VRRP MASTER. VRRP ESR VRRP BACKUP.

ESR .

BRAS/BRAS vrf. L3 WiFi -

BRAS L3 ESR-100/200/1000/1200/1500/1700. Wi-Fi, . BRAS :

- , WiFi ;
- WiFi , , , (SMS,);
- , WiFi , BRAS , WiFi ;
- WiFi BRAS .

BRAS , WiFi , SoftWLC, , BRAS. SoftWLC BRAS WiFi Eltex-PCRF.

DHCP-

DHCP **ISC-DHCP-SERVER** (dhcp-). Eltex.SoftWLC :

- () IP- 43 (11 12) , GRE ESR.
- (management,) IP- 43 (10 13) , .
- IP- Wi-Fi , .
- DHCP 82, 60 giAddrField.

DHCP- .

43

43 DHCP- :

- , SoftWLC SNMP- (10);
- GRE- (11 12);
- (6);
- (13).

, . .

- , , (255.255.255.255) / VLAN;
- IP- . , IP- ;
- DHCP- 43 DHCP- IP- .

43 DHCP- .

, SoftWLC . .

SoftWLC :

8
CPU >= 2200 MHz
>= 35 Gb

Ubuntu Server 18.04 LTS

SoftWLC

SoftWLC (, ,), MySQL, MongoDB, DHCP . , , .

SoftWLC :

- keepalived;
- rsync;
- MySQL;
- replicaSet MongoDB.

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, EMS. , , :

- . DHCP.
- , 43 10 DHCP, IP SoftWLC.
- EMS " Wi-Fi".

EMS



(""") . , IP- . IP- . .

, . .

- " " -, , .
- " " -, , .
- "" -, , .
- " " - EMS (RADIUS, OTT, SNMP) SSID .

[Quickstart](#) .

SSID Enterprise

Enterprise , RADIUS. SoftWLC FreeRADIUS. RADIUS UDP (User Datagram Protocol) «-». , RADIUS .

eltex-radius:

- ().
- RADIUS.
- RADIUS MySQL , , , : «Accepted» () «Rejected» ().
- «Accepted» () , , .

SSID Enterprise , .

eltex-radius .

Wi-Fi, . , , eltex-radius, radius . radius . , , .

, [SoftWLC](#) [Microsoft Active Directory \(AD\)](#) [Certificate Services \(CS\)](#).

SSID

SoftWLC WEB-, hotspot-. () , WEB-, (, SMS). , .

WEB- SoftWLC , , Hotspot-. , (,), . , .

:

- «Captive Portal» ;
- SSID "Hotspot";
- SSID ;
- RADIUS;
- .

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