v1.20_ EMS ( )

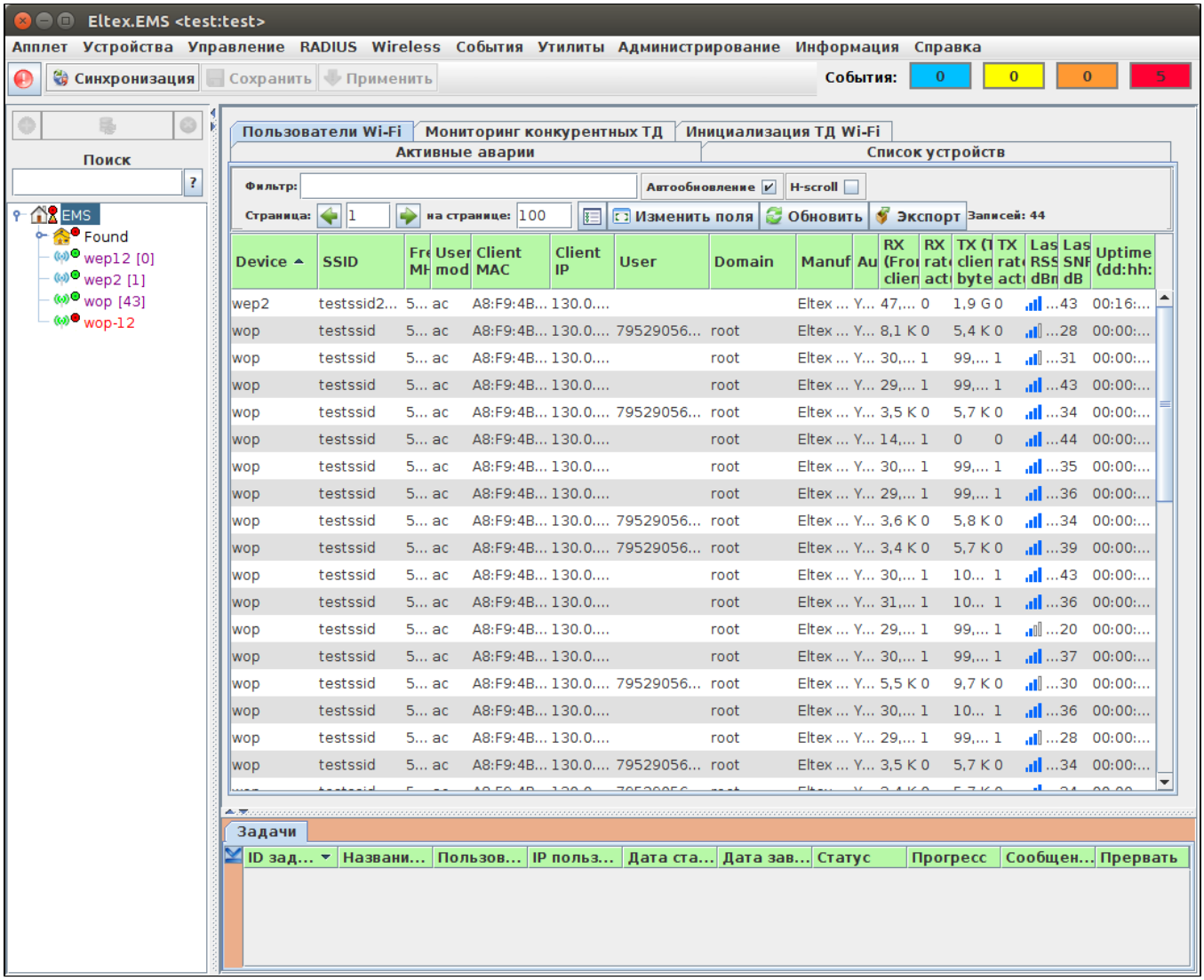
-
-
  -
  - Wireless
    - Wi-Fi
  -
    -
      - Servers
      - DHCP
      - RADIUS
      - PCRF
      - MySQL
      - Rsync service
-
-
  -
  - ""
  - " Wi-FI"
    -
  - " "
  - ""
    - " "
    - ""
    - ""
    - " Wi-Fi"
      - "Clients summary"
    - "Cluster state"
    - " "
    - " Syslog"
    - " ICMP"
    - " SNMP"
    - " "
    - " "
    - " "
    - " "
    - " "
    - " uplink"
    - " "
  - ""
    - ""
    - " "
    - ""
    - "
    - " "
    - "Key holder data"
    - "Global RADIUS"
    - "QoS. Main"
    - "QoS. EDCA parameters"
    - "Client QoS. Global"
    - "Client QoS. Class map"
    - "Client QoS. Policy map"
    - "WDS"
    - "Captive Portal. Global"
    - "Captive Portal. Instance"
      - "Cluster. Main"
      - " "
      - " "
      - "SNMP"
      - "SNMP Trap"
  - ""

Comala Metadata License Details

Invalid commercial evaluation license with a expired error. Please click here to purchase a commercial license.

, EMS .

EMS- .



4 :

1. SoftWLC, .
2. , . , .
3. , . .
4. , .

.

. 1 .

1 -

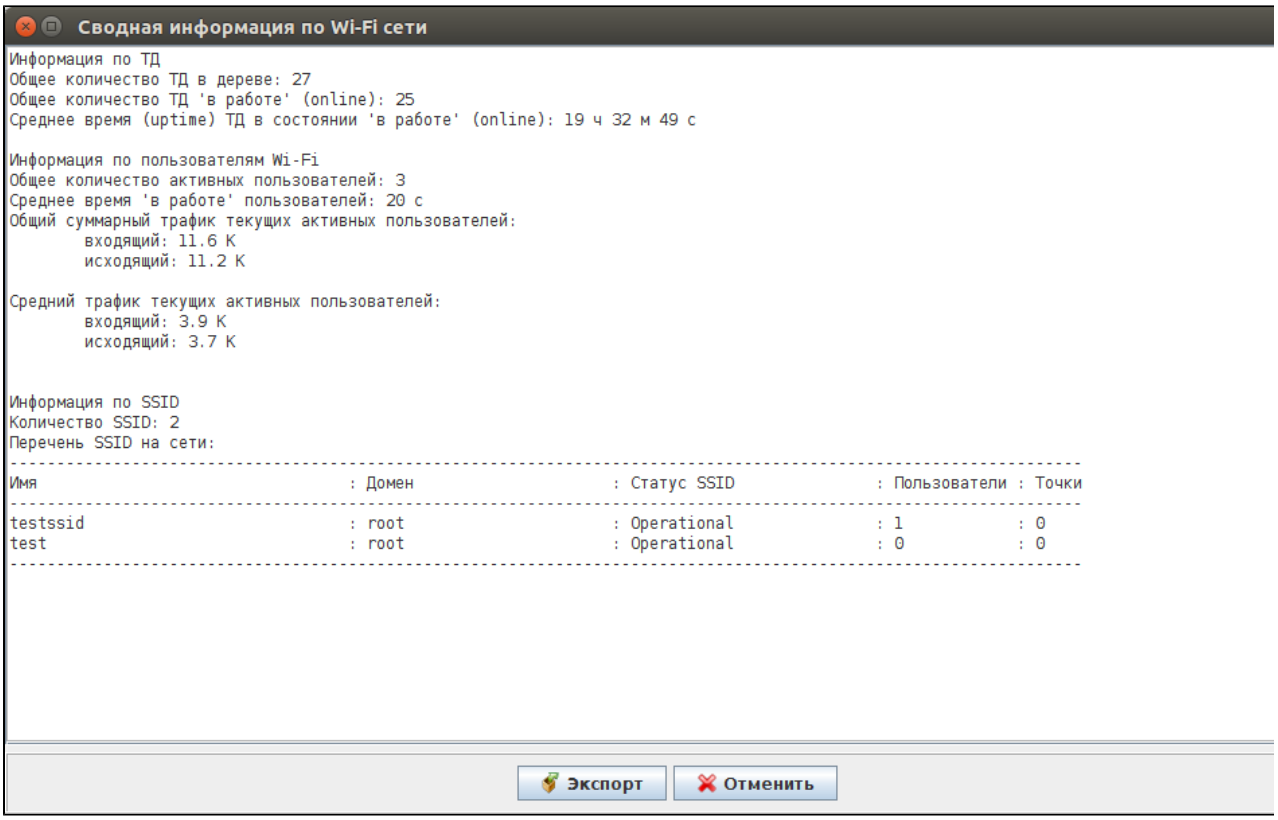
-		

Синхронизация		
0	*WARNING*	. . . «/ » .
0	*MINOR*	
0	*MAJOR*	
0	*ALARM*	
		: • , . • . • Добавить тест . • . • SocketConnector'a.
Wireless		
	Wi-Fi	, , , . . « Wi-Fi ».
		, « »
		SoftWLC

Wireless

Wi-Fi

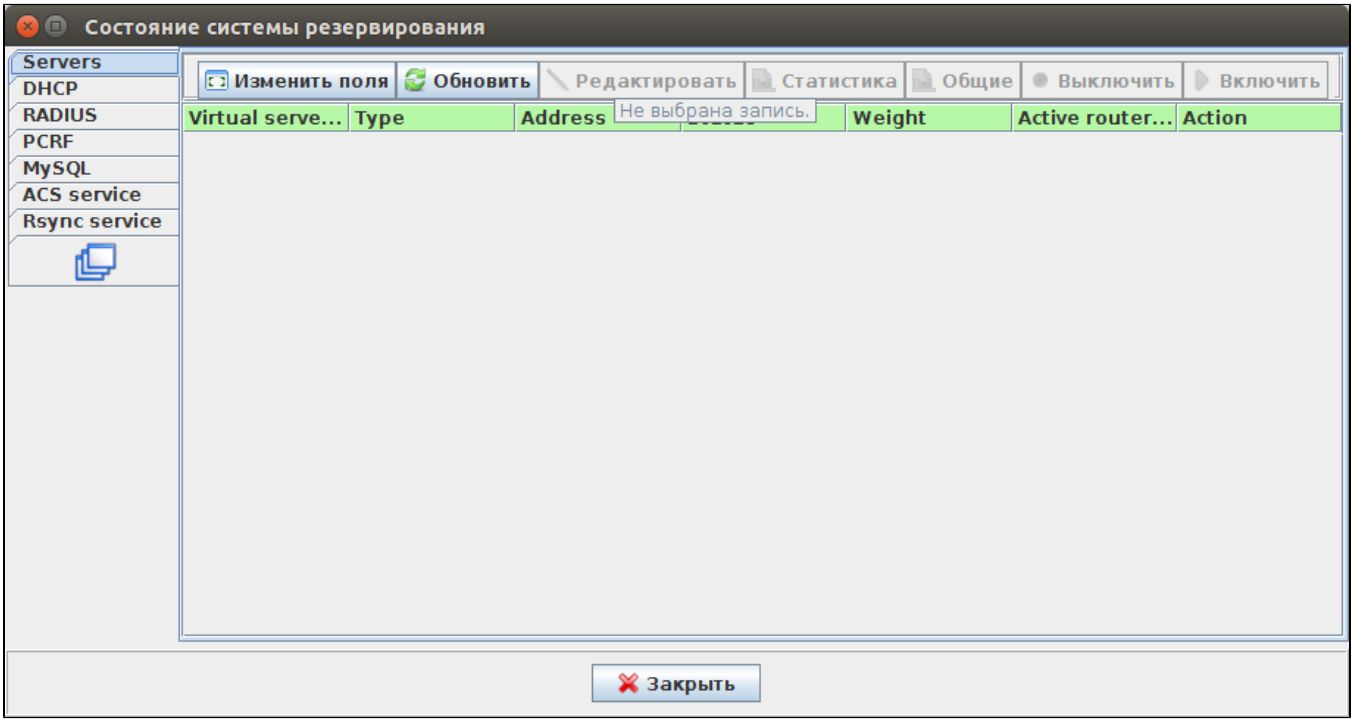
, , , SSID, , , , .


Сводная информация по Wi-Fi сети
Информация по ТД
Общее количество ТД в дереве: 27
Общее количество ТД 'в работе' (online): 25
Среднее время (uptime) ТД в состоянии 'в работе' (online): 19 ч 32 м 49 с
Информация по пользователям Wi-Fi
Общее количество активных пользователей: 3
Среднее время 'в работе' пользователей: 20 с
Общий суммарный трафик текущих активных пользователей:
входящий: 11.6 K
исходящий: 11.2 K
Средний трафик текущих активных пользователей:
входящий: 3.9 K
исходящий: 3.7 K
Информация по SSID
Количество SSID: 2
Перечень SSID на сети:
Имя : Домен : Статус SSID : Пользователи : Точки
testssid : root : Operational : 1 : 0
test : root : Operational : 0 : 0
Экспорт
Отменить

Экспорт

.

.


Состояние системы резервирования
Servers
DHCP
RADIUS
PCRF
MySQL
ACS service
Rsync service
Изменить поля
Обновить
Редактировать
Статистика
Общие
Выключить
Включить
Не выбрана запись.
Virtual serve...
Type
Address
Weight
Active router...
Action
Закрыть

:

- *Servers* - ;
- *DHCP* - DHCP-;
- *RADIUS* - RADIUS-;
- *PCRF* - PCRF;
- *MySQL* - MySQL;
- *Rsync service* - rsync.

Servers

.

" ". :

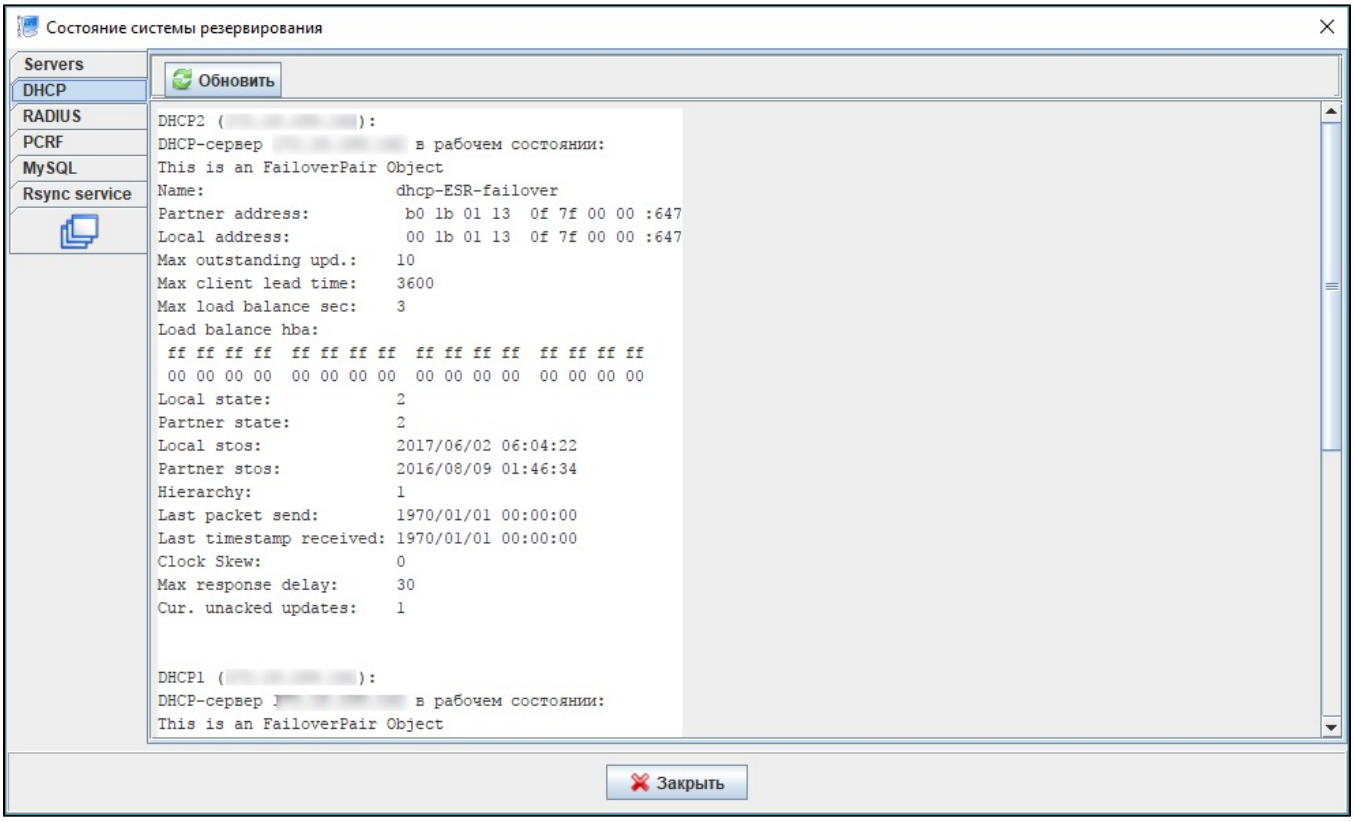
- *Virtual server index* - ;
- *Type* - (N);
- *Address* - IP- / ;
- *Status* - / (- alive dead);
- *Weight* - ;
- *Active router ID* - , IP- ( );
- *Action* - .

.

DHCP

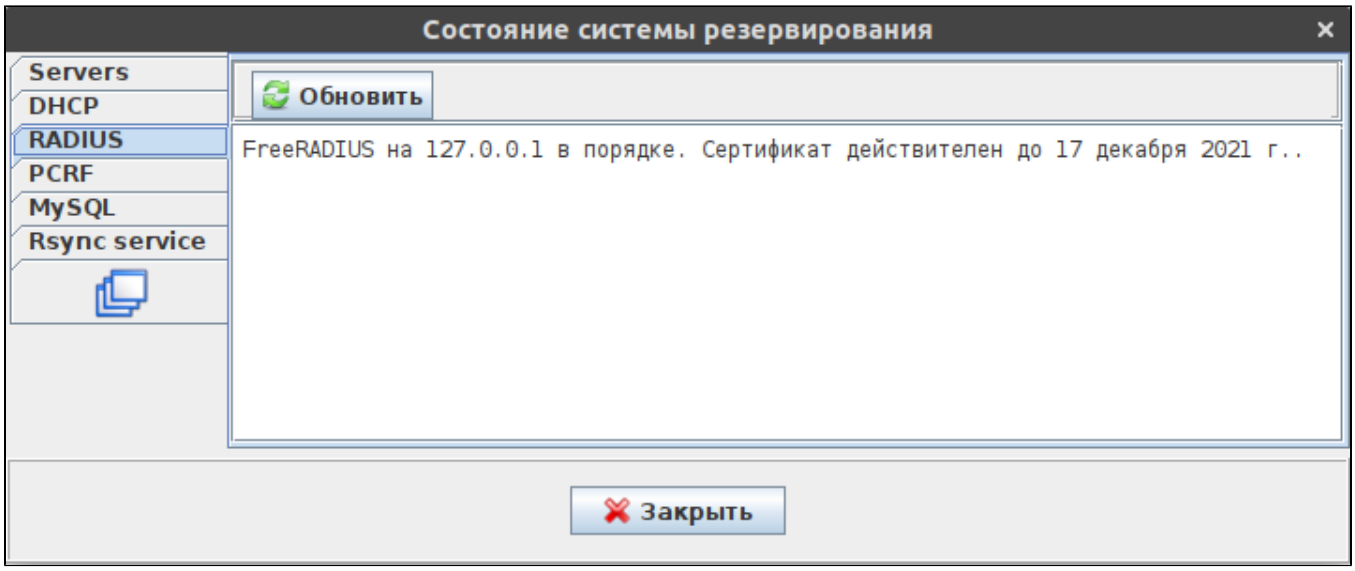
DHCP-, .

.



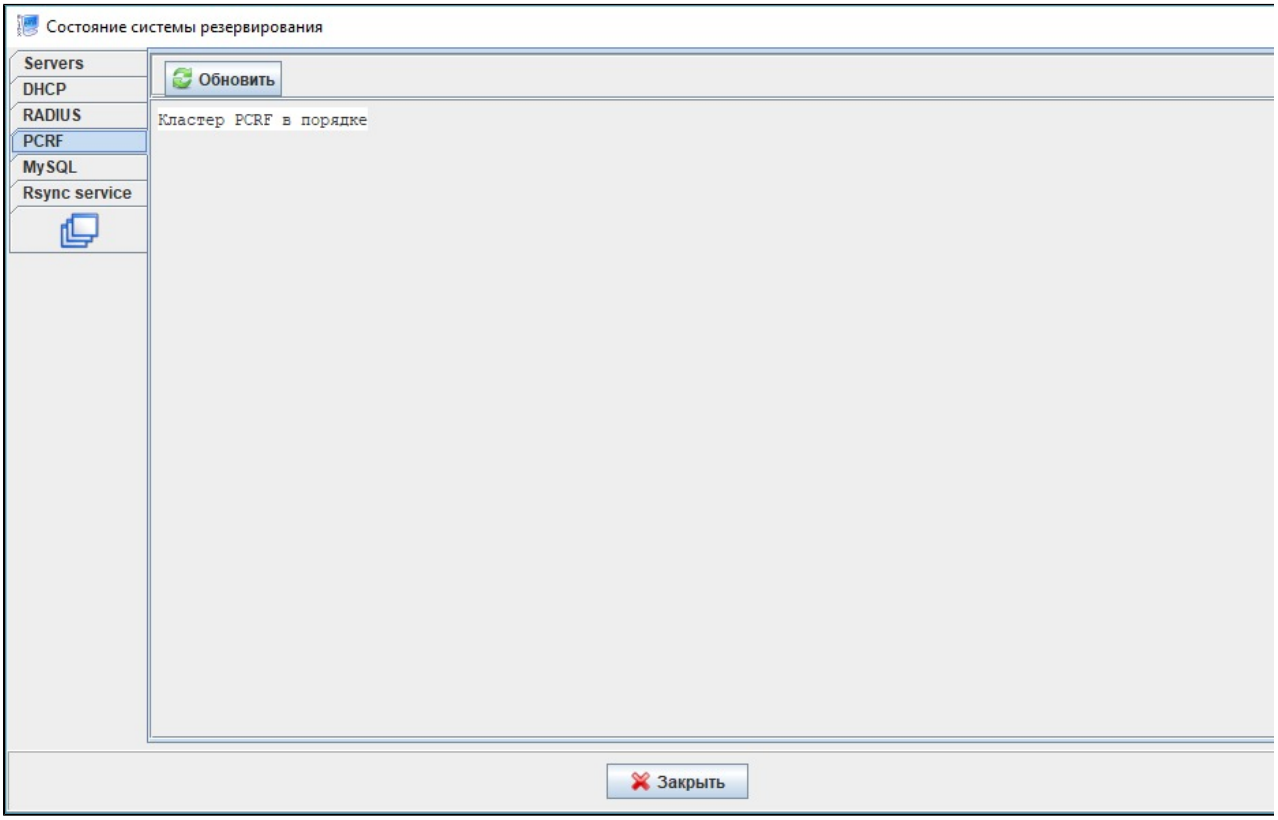
RADIUS

RADIUS-.



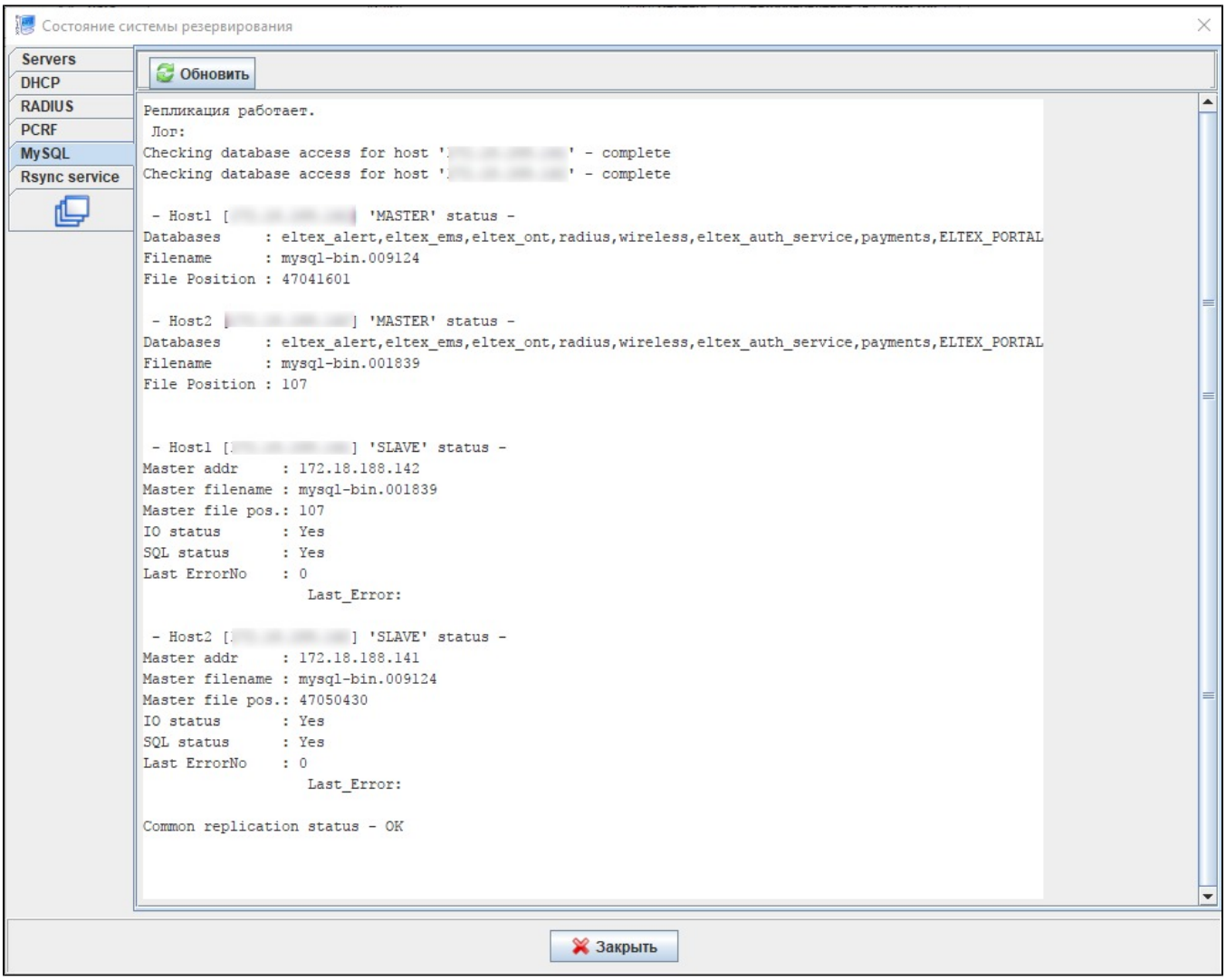
PCRF

PCRF.



MySQL

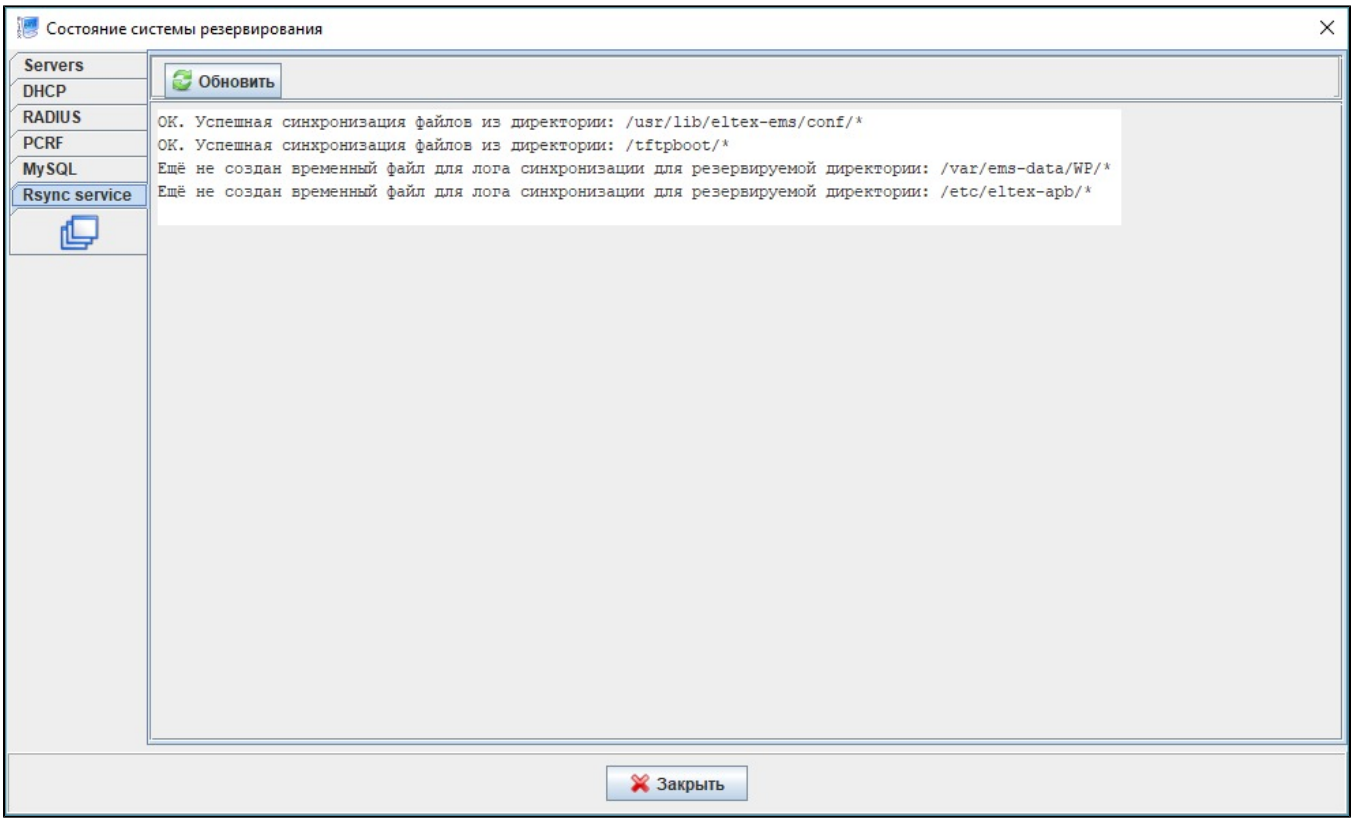
, MySQL.



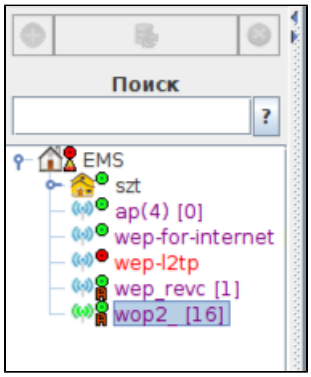
Rsync service

Rsync EMS, ONT OLT, OLT. .

.



. , . .



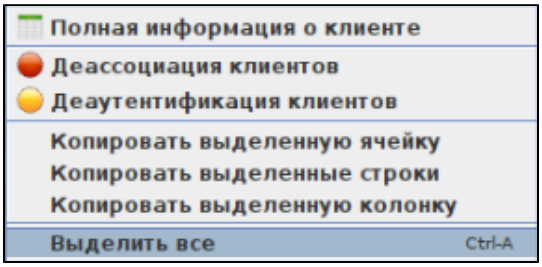
IP-.

. , :

- - ;
- Изменить поля - , . 3 4;
- Обновить - ;

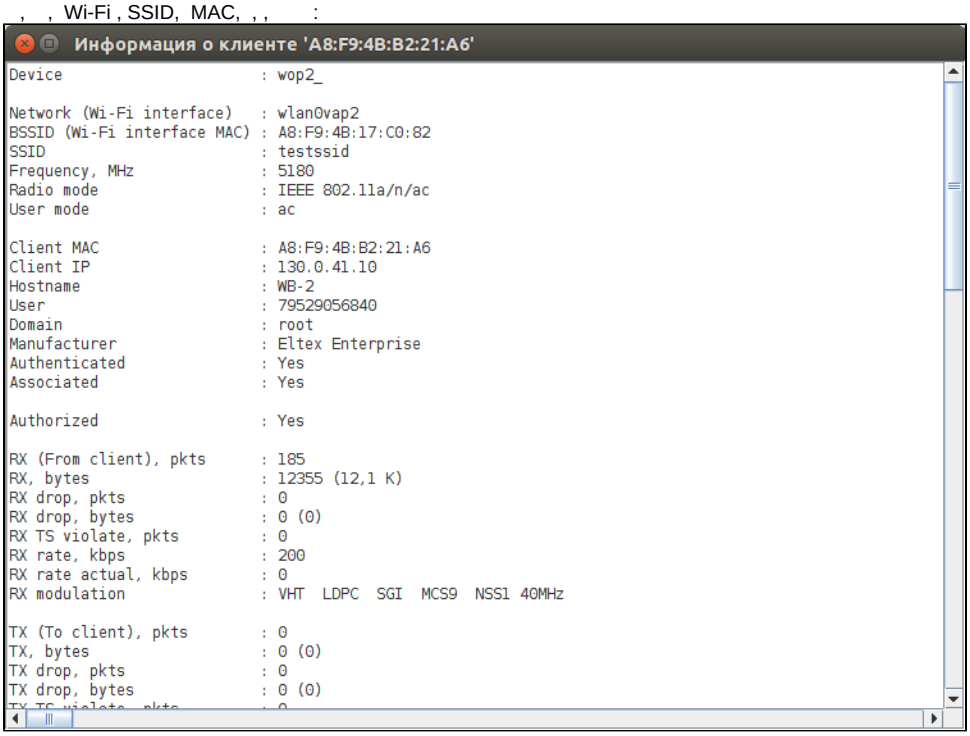
- Экспорт - csv;
- Очистить - .

. . « » .



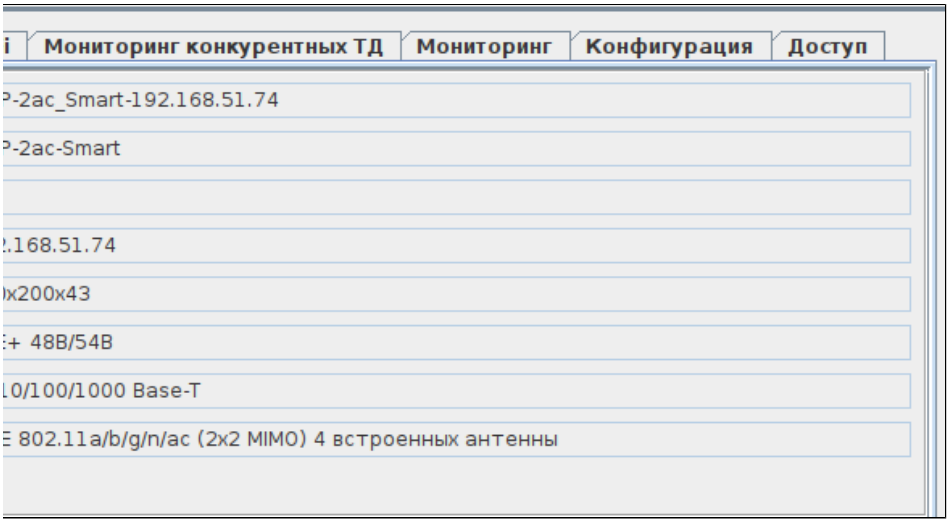
, :

- , , Wi-Fi , SSID, MAC, , , :



- – , ;
- – , .

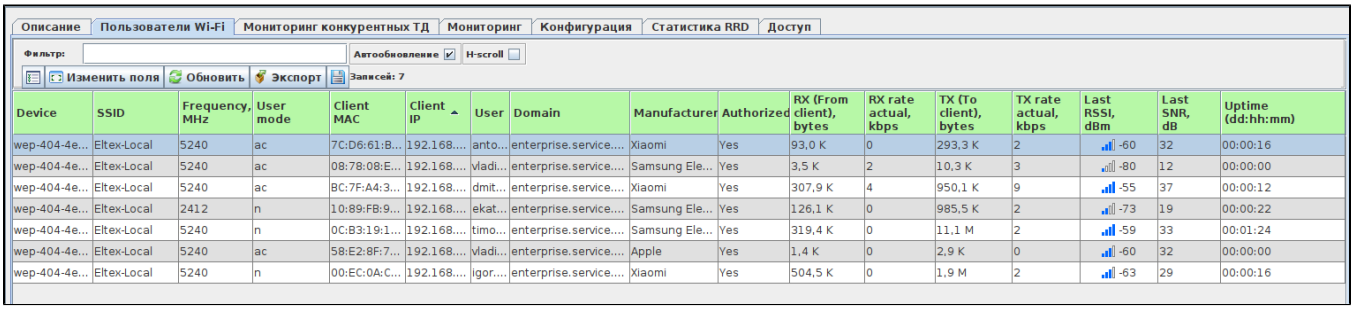
''''



:

- – ;
- – ;
- – ;
- *IP* – IP- ;
- , – ;
- , – , ;
- *Ethernet* – Ethernet- ;
- – Wi-Fi.

" Wi-FI"



Device	SSID	Frequency, MHz	User mode	Client MAC	Client IP	User	Domain	Manufacturer	Authorized	RX (From client), bytes	RX rate actual, kbps	TX (To client), bytes	TX rate actual, kbps	Last RSSI, dBm	Last SNR, dB	Uptime (dd:hh:mm)
wep-404-4e...	Eltex-Local	5240	ac	7C:D6:61:B...	192.168....	anto...	enterprise.service....	Xiaomi	Yes	93,0 K	0	293,3 K	2	-60	32	00:00:16
wep-404-4e...	Eltex-Local	5240	ac	08:78:08:E...	192.168....	vladi...	enterprise.service....	Samsung Ele...	Yes	3,5 K	2	10,3 K	3	-80	12	00:00:00
wep-404-4e...	Eltex-Local	5240	ac	BC:7F:A4:3...	192.168....	dmit...	enterprise.service....	Xiaomi	Yes	307,9 K	4	950,1 K	9	-55	37	00:00:12
wep-404-4e...	Eltex-Local	2412	n	10:89:FB:9...	192.168....	ekat...	enterprise.service....	Samsung Ele...	Yes	126,1 K	0	985,5 K	2	-73	19	00:00:22
wep-404-4e...	Eltex-Local	5240	n	0C:B3:19:1...	192.168....	timo...	enterprise.service....	Samsung Ele...	Yes	319,4 K	0	11,1 M	2	-59	33	00:01:24
wep-404-4e...	Eltex-Local	5240	ac	58:E2:8F:7...	192.168....	vladi...	enterprise.service....	Apple	Yes	1,4 K	0	2,9 K	0	-60	32	00:00:00
wep-404-4e...	Eltex-Local	5240	n	00:EC:0A:C...	192.168....	igor....	enterprise.service....	Xiaomi	Yes	504,5 K	0	1,9 M	2	-63	29	00:00:16

, . , (RADIUS)
"":

, - .

csv-.

Wi-FI

" " , .
:

- *Device* – , ;
- *Network (Wi-Fi interface)* – , ;
- *BSSID (Wi-Fi interface MAC)* – MAC- , ;
- *SSID* – SSID, ;
- *Vlan ID* - VLAN, , ;
- *ESR Name* - ESR , .
- *Frequency, MHz* – , ;
- *Radio mode* - , ;

- *User mode* - , ;
- *Client MAC* – MAC- ;
- *Client IP* - IP- ;
- *Hostname* - ;
- *User* – , ;
- *Domain* – ;
- *Manufacturer* – ;
- *Firmware version* - ;
- *Device type* - ;
- *Authenticated* – ;
- *Associated* – ;
- Authorized - ;
- *Captive portal* - , ;
- *RX (From client), bytes* – ( ), ;
- *RX rate, kbts* – ;
- *RX rate actual, kbts* – ;
- RX modulation - ;
- *TX (To client), bytes* – ( ), ;
- *TX rate, kbts* – ;
- *TX rate actual, kbts* – ;
- *TX modulation* – ;
- *Last RSSI* – ;
- *Last SNR* – *l*;
- *Uptime (dd:hh:mm)* – .

" " .
"", – *"".*

:

2.4.1.19

1.20.0.19 WOP-12ac-LR

1.7.0 WOP-2ac-LR2/5

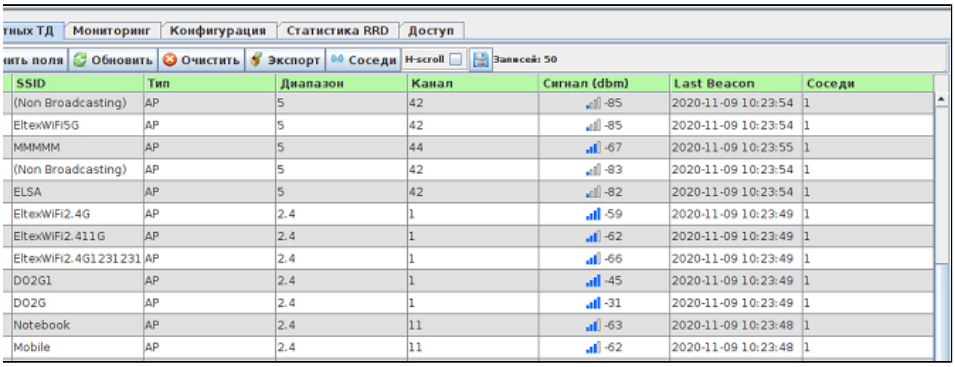
, .
: 04:80 192.168.40.53 Sony
, :

- *ssid=ELTEX*
- *id=*
- config=

: config=x.115
( ).

, .
: AP-hotspot ssid=wifi-free – SSID "wifi-free" "AP-hotspot".
"" . "" , . "" .
"" .

" "



SSID	Тип	Диапазон	Канал	Сигнал (dbm)	Last Beacon	Соседи
(Non Broadcasting)	AP	5	42	-85	2020-11-09 10:23:54	1
EltexWiFi5G	AP	5	42	-85	2020-11-09 10:23:54	1
MMMMM	AP	5	44	-67	2020-11-09 10:23:55	1
(Non Broadcasting)	AP	5	42	-83	2020-11-09 10:23:54	1
ELSA	AP	5	42	-82	2020-11-09 10:23:54	1
EltexWiFi2.4G	AP	2.4	1	-59	2020-11-09 10:23:49	1
EltexWiFi2.411G	AP	2.4	1	-62	2020-11-09 10:23:49	1
EltexWiFi2.4G1231231	AP	2.4	1	-66	2020-11-09 10:23:49	1
DO2G1	AP	2.4	1	-45	2020-11-09 10:23:49	1
DO2G	AP	2.4	1	-31	2020-11-09 10:23:49	1
Notebook	AP	2.4	11	-63	2020-11-09 10:23:48	1
Mobile	AP	2.4	11	-62	2020-11-09 10:23:48	1

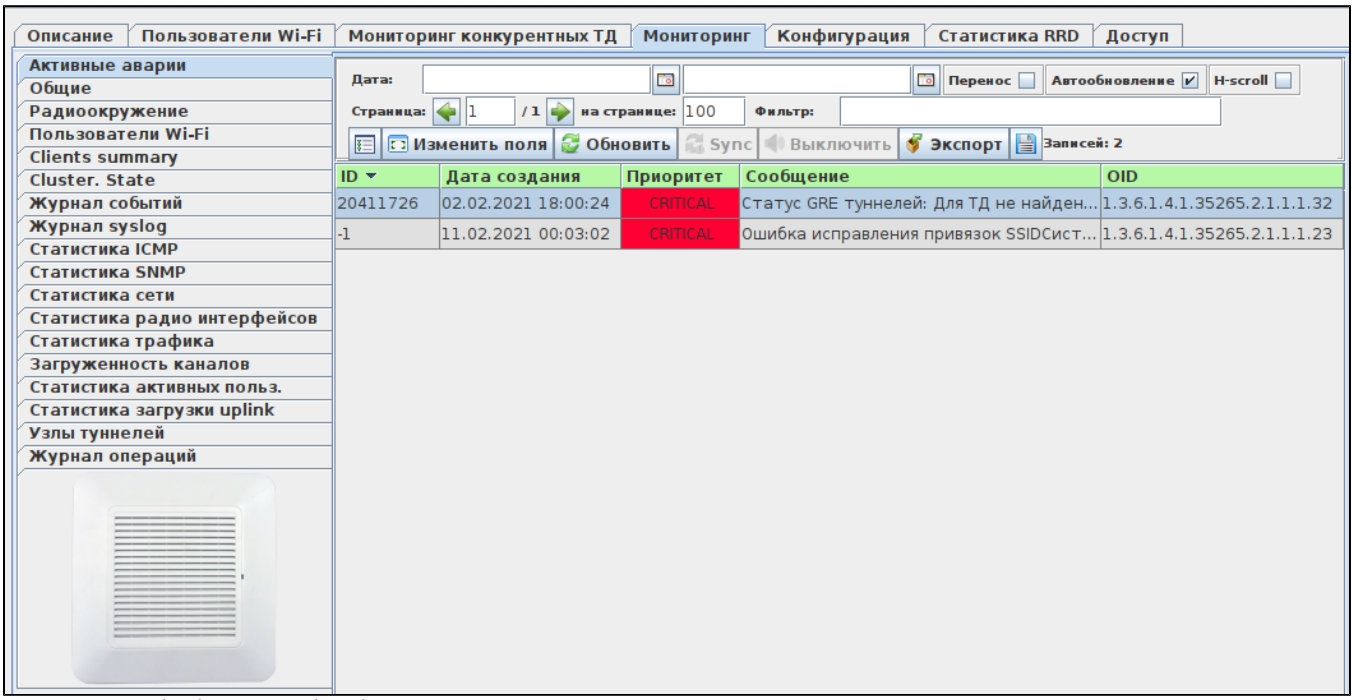
Eltex, ( ), ( ).

:

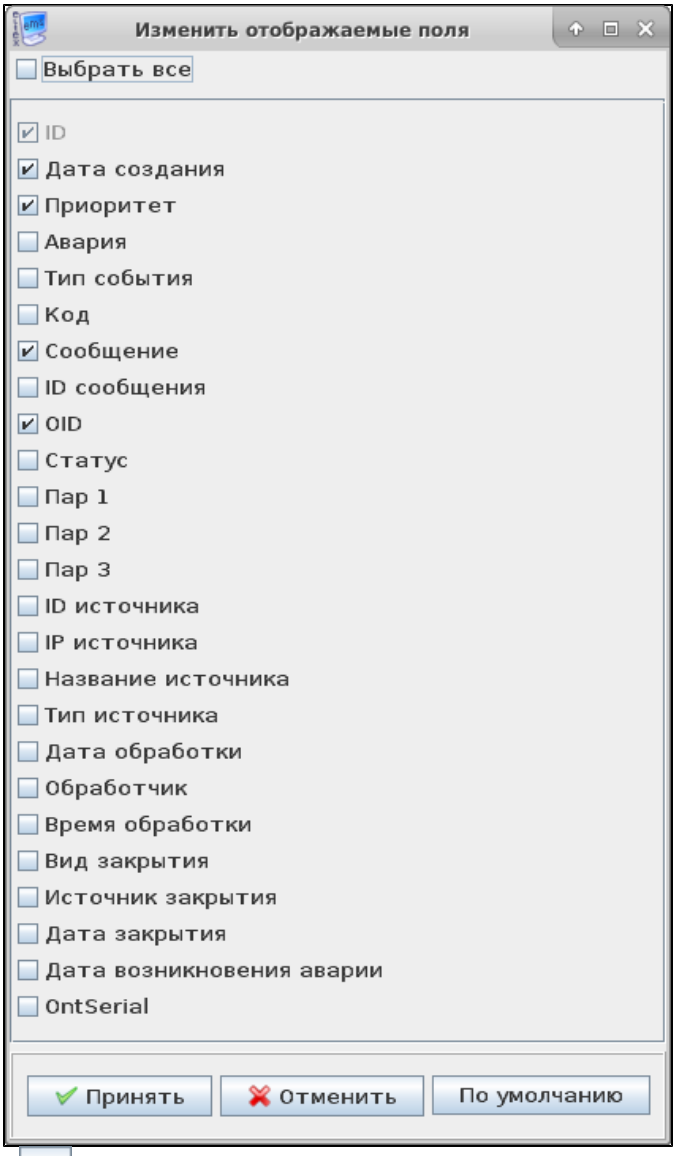
- – , , . :
  - , ;
  - , , ;
  - beacon;
  - ;
- *MAC* – MAC- ;
- – ;
- *SSID* – ;
- – ;
- – IEEE 802.11 :
  - *2,4* –IEEE 802.11b, 802.11g, 802.11n ( );
  - *5* – IEEE 802.11a 802.11n ( );
- – ;
- - ;
- *Last Beacon* – beacon;
- *C* – , .

''''

" "



. (, ,). . (,) , . , .



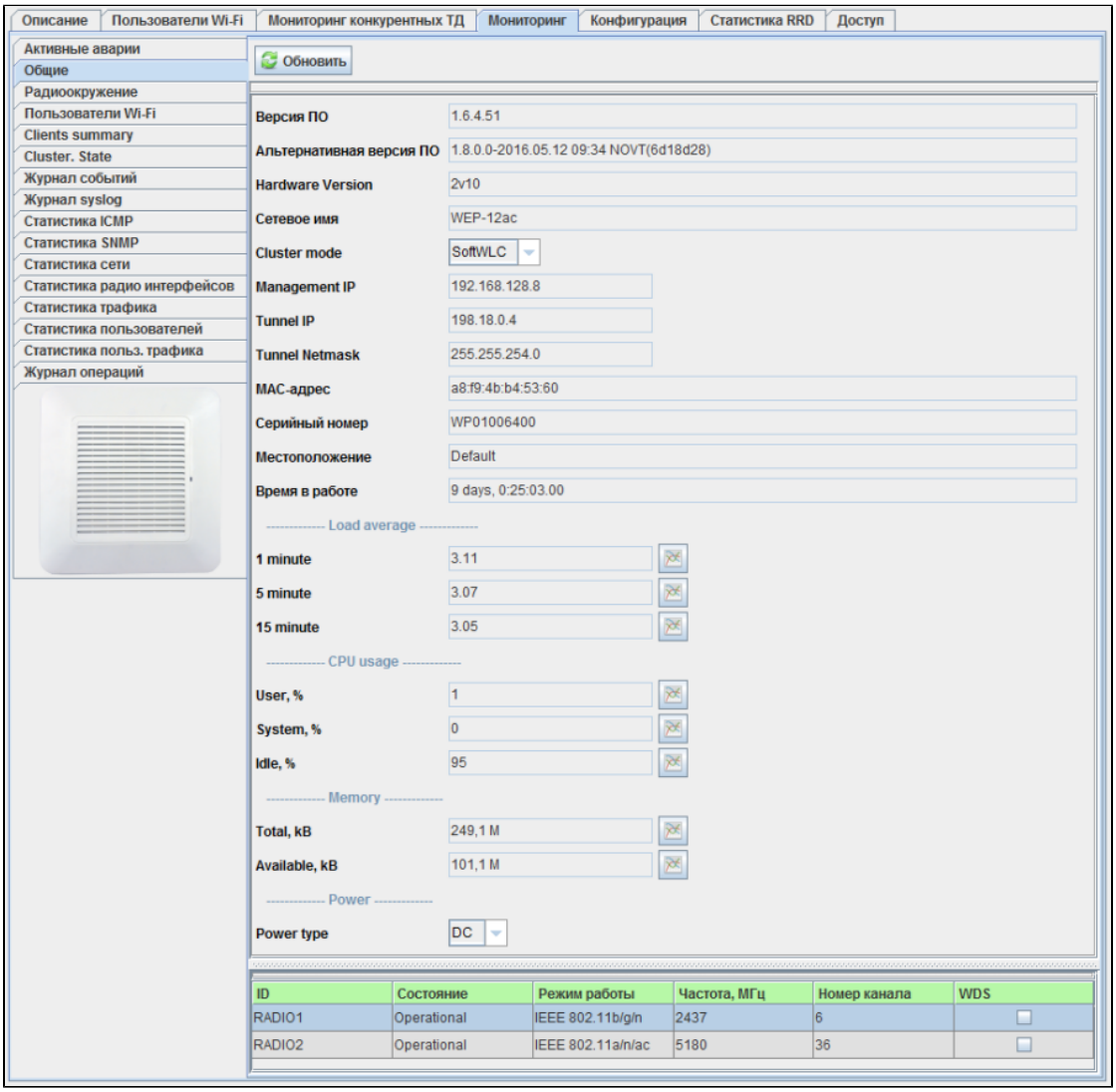
" " , .

:

- *ID* – ;
- – ;
- – ;
- – ;
- – (snmp , monitor,);
- – ;
- – ;
- *ID* – ;
- *OID* – SNMP OID ;
- – ;
- *1* – 1, ;
- *2* – 2, ;
- *3* – ;
- *ID* – ;
- *IP* – IP- ;
- – ;
- ;
- – ("" " ");
- – () , ;
- – ;
- – : MANUAL – , AUTO – ;
- – ;
- – *"";*
- ;
- *OntSerial* – PON-.

" " .
"", – "".

""



, , .

:

- – ;
- – ;
- *Hardware Version* – ;
- – hostname ;
- *Cluster mode* – :
  - *Off* – ;
  - *Full* – ;
- *Management IP* – IP- ;
- *Tunnel IP* – IP- , Management Data-;
- *Tunnel Netmask* – IP-;
- *MAC-* – ;
- – ;
- – ;
- – ;
- *Load Average 1 min/5 min/15 min (1 /5 /15)*– /5 /15 ;
- *CPU usage* — :
  - *User* – ;
  - *System* – ;
  - *Idle* – ;
- *Memory* — :

- *Total* — ;
- *Available* — ;

- *Power type* – :
  - *DC*– ,
  - *AC* – .

"".

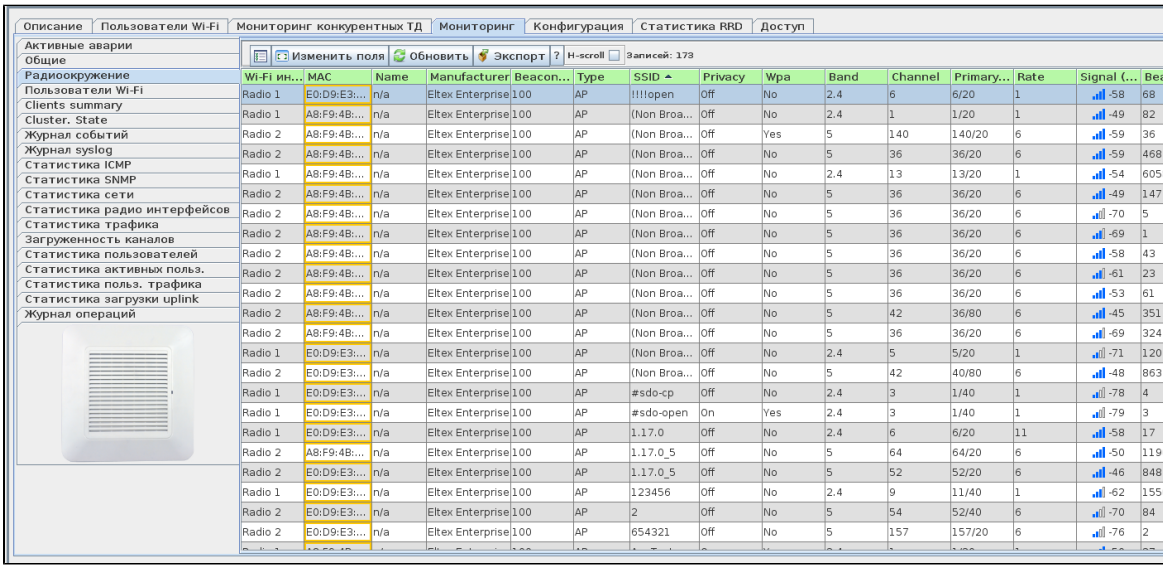
ID	Состояние	Режим работы	Частота, МГц	Номер канала	WDS
RADIO1	Operational	IEEE 802.11b/g/n	2437	6	☐
RADIO2	Operational	IEEE 802.11a/n/ac	5260	52	☐

:

- *ID* – ;
- – ;
- – :
  - *IEEE 802.11b/g* – 2.4 , 54 /;
  - *IEEE 802.11b/g/n* – 2.4 , 450 /;
  - *2.4 Ghz IEEE 802.11n* – 2.4 , 450 /. IEEE 802.11n;
  - *IEEE 802.11a* – 5 , 54 /;
  - *IEEE 802.11a/n/ac* – 5 , 1300 /;
  - *IEEE 802.11n/ac* – 5 , 1300 /. IEEE 802.11n/ac;
- , – ;
- – , ;
- , ;
- *WDS* – / .

, " ".

""



, , , , .
MA :

- – Eltex, ;
- – Eltex, ;
- – .

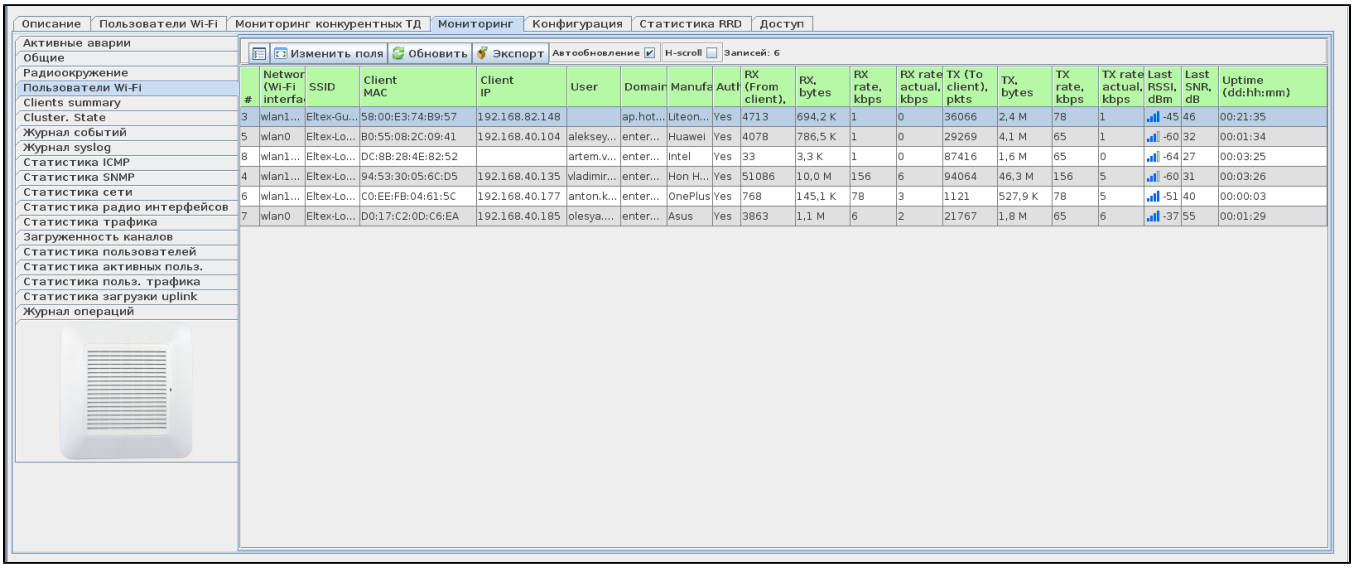
(" ").
" " .
"", – "".

:

- *Wi-Fi* – , ;
- *MAC*– MAC- ;

- *Name* - ;
- *Manufacturer* – ;
- *Beacon Int.* – -, ;
- *Type* – :
  - *AP* – , IEEE 802.11, Wireless Networking Framework ;
  - *Ad hoc* – (-), . IEEE 802.11 peer-to-peer Basic Service Set (IBSS);
- *SSID* – ;
- *Privacy* – (on – , off –);
- *Wpa* – WPA security (on – , off –);
- *Band* – IEEE 802.11 :
  - *2,4* –IEEE 802.11b, 802.11g, 802.11n ( );
  - *5* – IEEE 802.11a 802.11n ( );
- *Channel* – ;
- *Primary Channel* – (/);
- *Rate* – / ;
- *Signal (dbm)* – ;
- *Beacons* – -, ;
- *Last Beacon* – -, ;
- *Supported Rates* – , .

" Wi-Fi"



.

" ". " " .
"", – "".

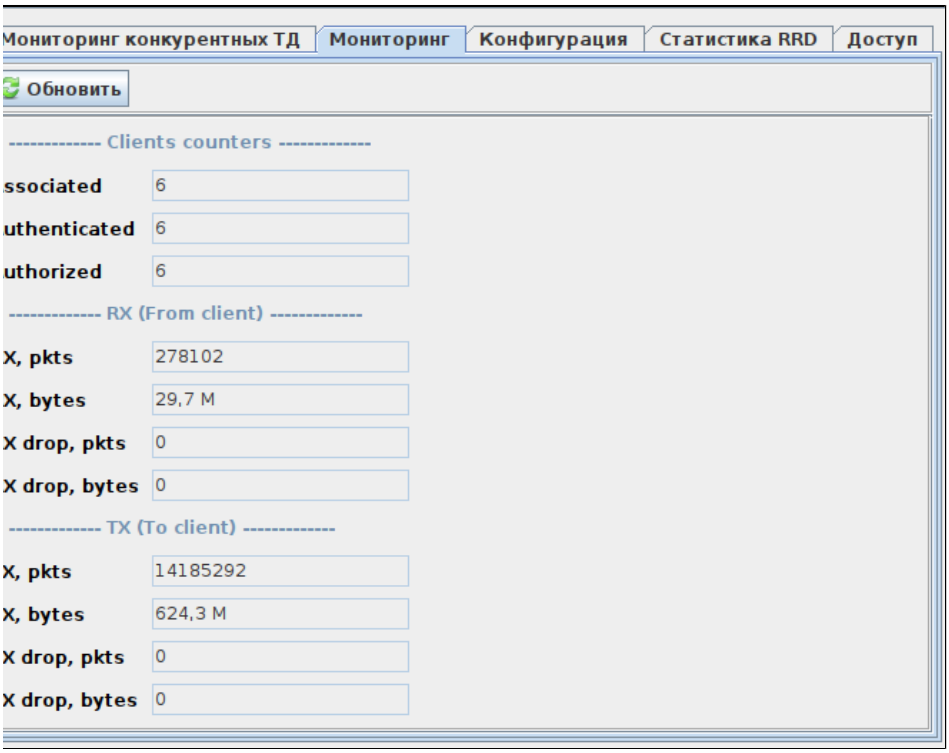
csv-, "".

:

- *#* – ;
- *Network (Wi-Fi interface)* – , ;
- *BSSID (Wi-Fi interface MAC)* – MAC- , ;
- *SSID* – , ;
- Vlan ID - VLAN, , ;
- ESR Name - ESR , ;
- *Frequency, MHz* – , ;
- *Radio mode* – , ;
- *Client mode* – , ;
- *Client MAC* – MAC- ;
- *Hostname* - ;
- *User* – , ;
- Domain – ;
- *Manufacturer* – - ;
- *Firmware version* - ( );
- *Device type* - ( );
- *Associated* – ;
- *Authenticated* – ;
- *Authorized* – ;
- *Captive Portal* - , ;
- *RX (From client), pkts* – , ;
- *RX, bytes* – , ;

- *RX drop, pkts* – , ;
- *RX drop, bytes* – , ;
- *RX TS violate, pkts* – - , , ;
- *RX rate, kbps* – ;
- *RX rate actual, kbps* – ;
- *RX modulation* – ;
- *TX (To client), pkts* – , ;
- *TX, bytes* – , ;
- *TX drop, pkts* – , ;
- *TX drop, bytes* – , ;
- *TX TS violate, pkts* – - , , ;
- *TX rate, kbps* – ;
- *TX rate actual, kbps* – ;
- *TX modulation* – ;
- *Last RSSI, dBm*– ;
- *Last SNR, dBm* – / ;
- *Uptime (dd:hh:mm)* – ::;
- *Global QoS Mode* – QoS ;
- *Client QoS Mode* – QoS ;
- *Bandwidth Limit Up, bps* – . : /. : 0 – 4294967295 /. 0, . , 64 /;
- *Bandwidth Limit Down, bps* – , /. : 0 – 4294967295 /. 0, . , 64 /;
- *ACL Type Up* – , ACL. IPv4, ACS , Layer3 IPv4 . IPv6, ACS , Layer3 IPv6 . MAC, ACS , Layer2 . "ACL Name Up" ACL, "ACL Type Up";
- *ACL Name Up* – ACL, , ;
- *ACL Type Down* – , ACL. IPv4, ACS , Layer3 IPv4-. IPv6, ACS , Layer3 IPv6-. MAC, ACS , Layer2 . "ACL Name Down" ACL, "ACL Type Down";
- *ACL Name Down* – ACL, , ;
- *DiffServ Policy Up* – Policy, , ;
- *DiffServ Policy Down* – Policy, , .

"Clients summary"



.

Clients counters

- *Authenticated* – ;
- *Associated* – ;
- Authorized – ;

RX (From client)

- *RX, pkts* – ;
- *RX, bytes* – ;
- *RX drop, pkts* – ;

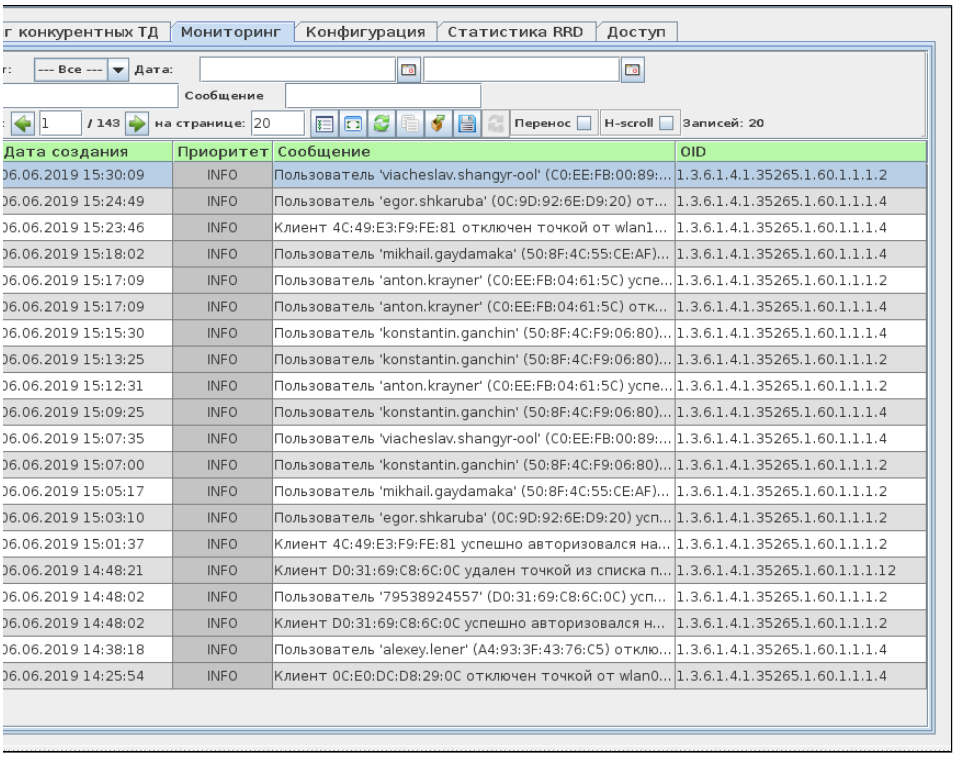
- *RX drop, bytes – ;*

TX (To client)

- *TX, pkts – , ;*
- *TX, bytes – , ;*
- *TX drop, pkts – ;*
- *TX drop, bytes – .*

"Cluster state"

" "



, .

( ) *( ).*

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, *(" ").*

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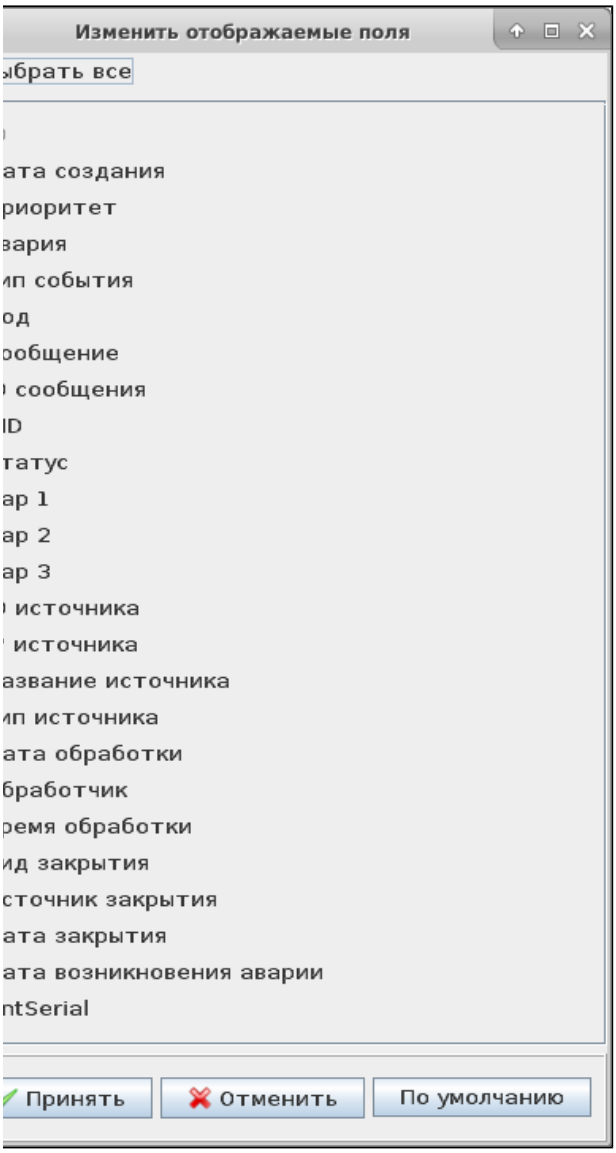
:

- – ;
- : /– .. .. .;
- *OID* – SNMP OID (: 1.3.6.**, *.1.6.3.1, *.3.6**, 1.3.6.1.4.1.8072.4);
- – (: , %, % %).

(" ").

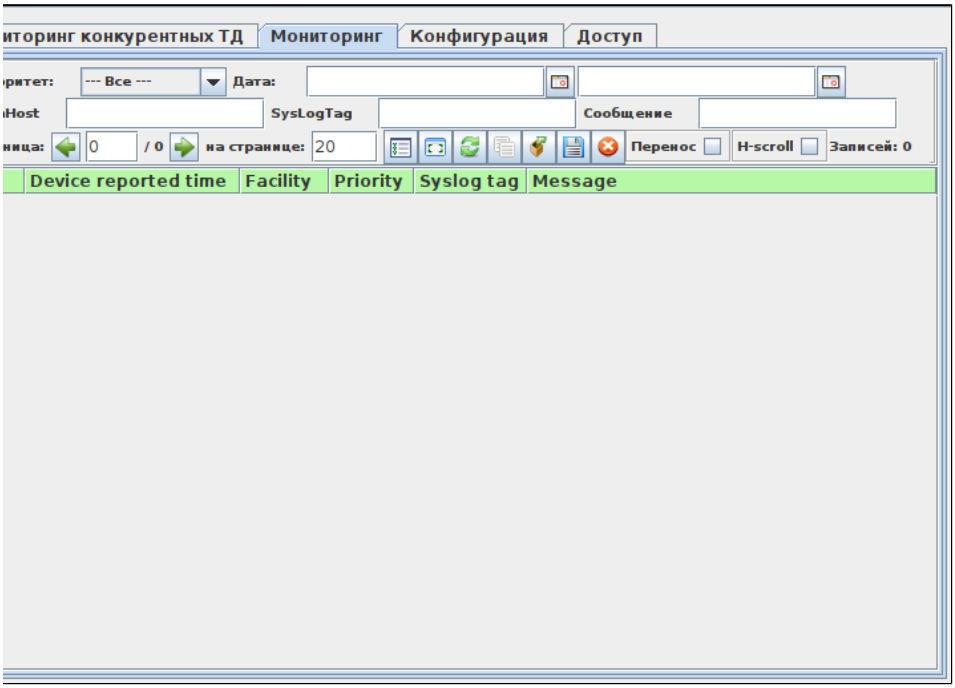
(" ").



- *ID* – ;
- – ;
- – ;
- – ;
- – (snmp-, monitor,);
- – ;
- – ;
- *ID* – ;
- *OID* – SNMP OID ;
- – ;
- *1*- 1, ;
- *2* – 2, ;
- *3* – ;
- *ID* – ;
- *IP* – IP- ;
- – ;
- ;
- – ("" " ");
- – () , ;
- – ;
- – : MANUAL – , AUTO – ;
- – ;
- – "";
- ;

- *OntSerial* – PON.

" Syslog"



, .

SYSLOG – , . EMS SYSLOG- .

( ) ( ).

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, (" ").

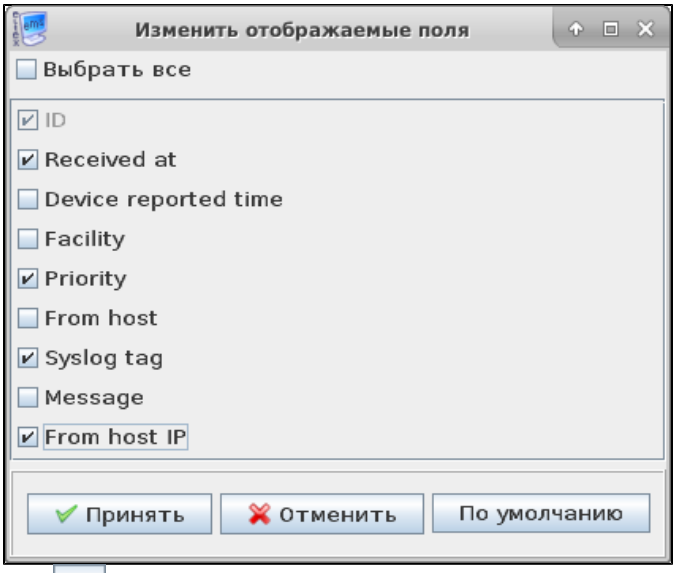
.

:

- – :
  - *LOG_EMERG* – ;
  - *LOG_ALERT*– -;
  - *LOG_CRIT* – ;
  - *LOG_ERR*– ;
  - *LOG_WARNING* – -;
  - *LOG_NOTICE* – ;
  - *LOG_INFO* – ;
  - *LOG_DEBUG* – ;
- : /– .. .. .;
- *SysLogTag* – , ;
- *FromHost* – ( );
- *Message* – .

"Limit" , . .

(" ").

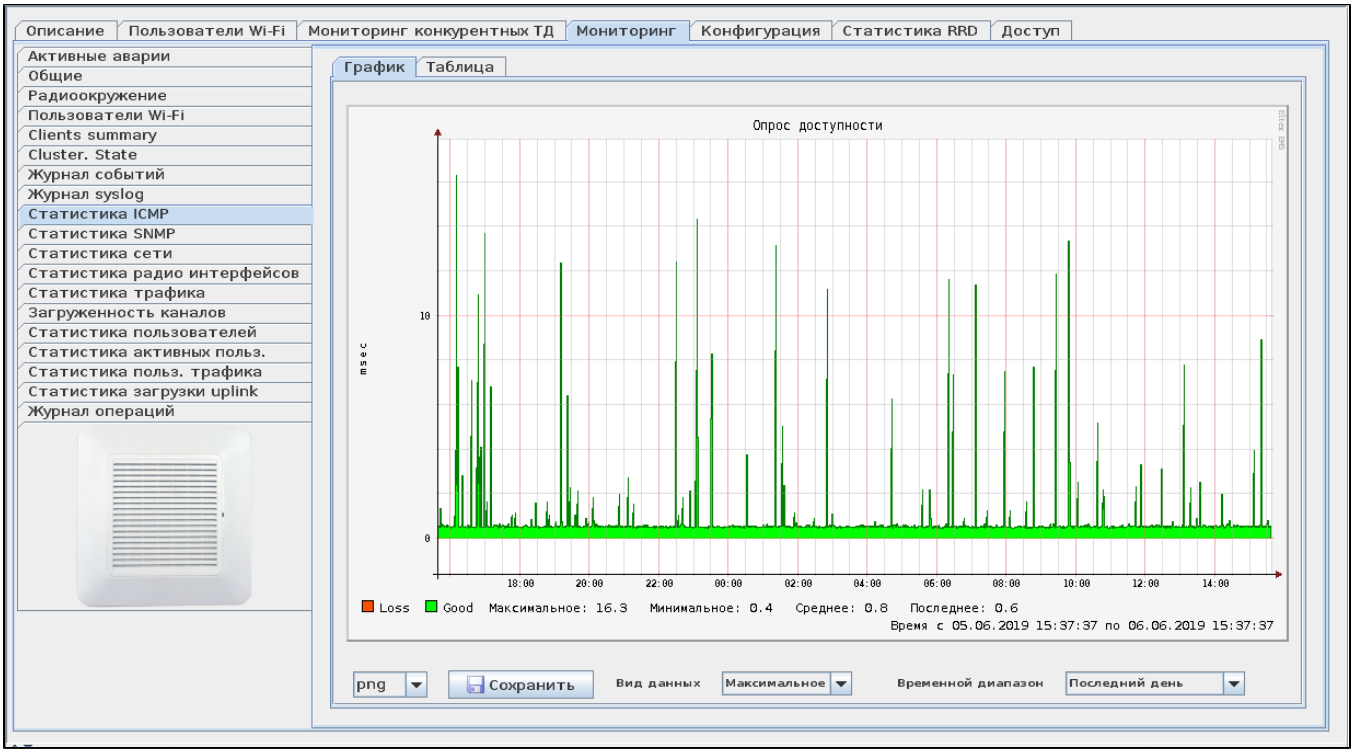


" ":

- *ID* – , ;
- *Received at* – ;
- *Device reported time* – .. .. .;
- *Facility* – ;
- *Priority* – ;
- *From Host* – ;
- *Message* – ;
- *SysLogTag* – , ;
- *From host IP* – IP- .

" " .
""; – *"";*

" ICMP"

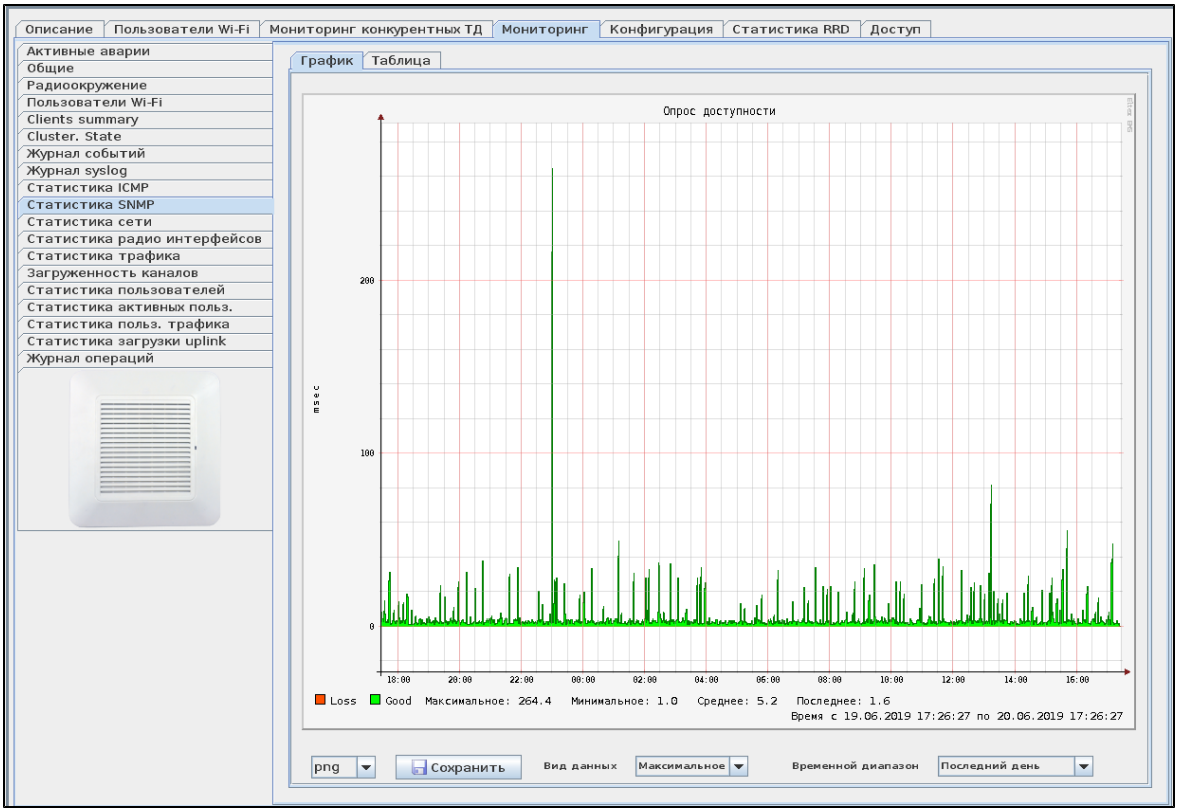

Описание
Пользователи Wi-Fi
Мониторинг конкурентных ТД
Мониторинг
Конфигурация
Статистика RRD
Доступ
Активные аварии
Общие
Радиоокружение
Пользователи Wi-Fi
Clients summary
Cluster. State
Журнал событий
Журнал syslog
Статистика ICMP
Статистика SNMP
Статистика сети
Статистика радио интерфейсов
Статистика трафика
Загруженность каналов
Статистика пользователей
Статистика активных польз.
Статистика польз. трафика
Статистика загрузки uplink
Журнал операций
График
Таблица
Опрос доступности
msec
10
0
18:00
20:00
22:00
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
Loss
Good
Максимальное: 16.3
Минимальное: 0.4
Среднее: 0.8
Последнее: 0.6
Время с 05.06.2019 15:37:37 по 06.06.2019 15:37:37
png
Сохранить
Вид данных
Максимальное
Временной диапазон
Последний день

- .

- - ;
- - ;
- - .

.

" SNMP"


Описание
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Загруженность каналов
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Статистика активных польз.
Статистика польз. трафика
Статистика загрузки uplink
Журнал операций
График
Таблица
Опрос доступности
msec
200
100
0
18:00
20:00
22:00
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
Loss
Good
Максимальное: 264.4
Минимальное: 1.0
Среднее: 5.2
Последнее: 1.6
Время с 19.06.2019 17:26:27 по 20.06.2019 17:26:27
png
Сохранить
Вид данных
Максимальное
Временной диапазон
Последний день

SNMP-.

- - ;
- - ;
- - .

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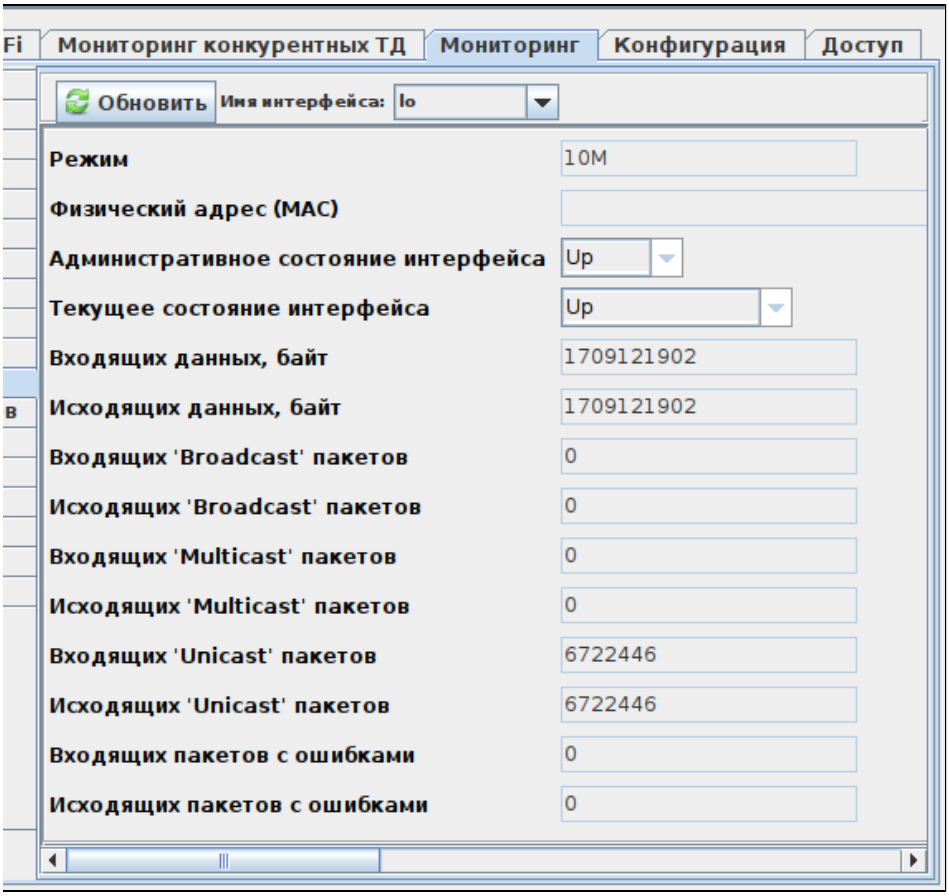
" "



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" ".

:

- – 10M, 100M, 1G, 10G;
- *(MAC)* – ;
- – (– Up - Down);
- – (– Up - Down);
- *,* – , ;
- *unicast* – ;
- – ;
- *,* – , ;
- *unicast* – ;
- – ;
- *"Broadcast"* – ;
- *"Broadcast"* – ;
- *"Multicast"* – ;
- *"Multicast"* – .

" "

, (AP). , .

"Interface".

:

Packets – :

- *WLAN Packets Received* – , WLAN;
- *WLAN Packets Transmitted* – , WLAN;
- *WLAN Packets Receive Dropped* – , - ;
- *WLAN Packets Transmit Dropped* – , - ;

Bytes – :

- *WLAN Bytes Received* – , WLAN;
- *WLAN Bytes Transmitted* – , WLAN;
- *WLAN Bytes Receive Dropped* – , - ;
- *WLAN Bytes Transmit Dropped* – , - ;

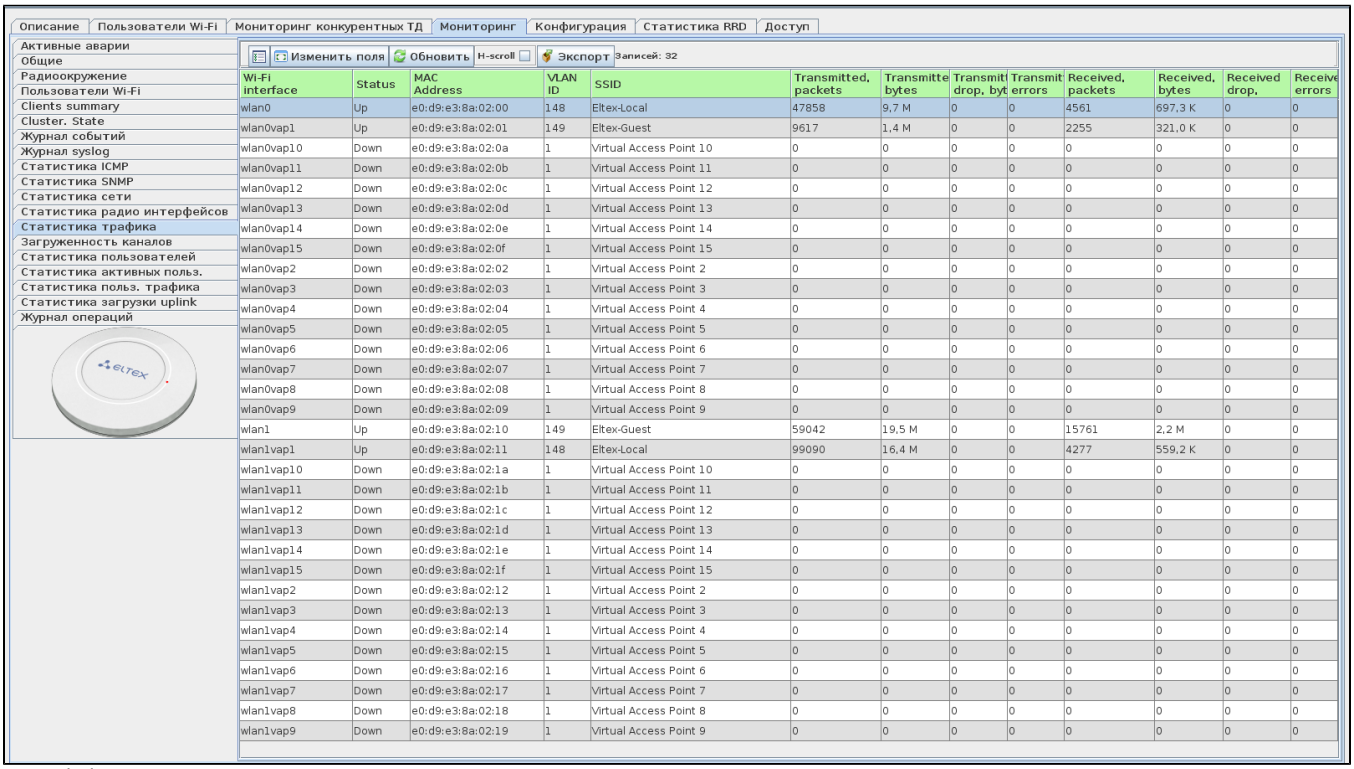
Counters – :

- *Fragments Received* – , ;
- *Fragments Transmitted* – , ;
- *Multicast Frames Received* – , ;
- *Multicast Frames Transmitted* – , ;
- *Duplicate Frame Count* – ;
- *Failed Transmit Count* – MSDU ( );
- *Transmit Retry Count* – MSDU ;

- *Multiple Retry Count* – MSDU ;
- *RTS Success Count* – CTS, RTS;
- *RTS Failure Count* – CTS RTS, ;
- *ACK Failure Count* – *ACK*, ;
- *FCS Error Count* – (FCS), MSDU;
- *Transmitted Frame Count* – MSDU;
- *WEP Undecryptable Count* – , , .

802.11n () . : Aggregated Mac Protocol Data Unit (A-MPDU) Aggregated Mac Service Data Unit (A-MSDU).

" "



Wi-Fi interface	Status	MAC Address	VLAN ID	SSID	Transmitted, packets	Transmitte bytes	Transmit drop, byt	Transmit errors	Received, packets	Received, bytes	Received drop,	Receive errors
wlan0	Up	e0:d9:e3:8a:02:00	148	Eltex-Local	47858	9,7 M	0	0	4561	697,3 K	0	0
wlan0vap1	Up	e0:d9:e3:8a:02:01	149	Eltex-Guest	9617	1,4 M	0	0	2255	321,0 K	0	0
wlan0vap10	Down	e0:d9:e3:8a:02:0a	1	Virtual Access Point 10	0	0	0	0	0	0	0	0
wlan0vap11	Down	e0:d9:e3:8a:02:0b	1	Virtual Access Point 11	0	0	0	0	0	0	0	0
wlan0vap12	Down	e0:d9:e3:8a:02:0c	1	Virtual Access Point 12	0	0	0	0	0	0	0	0
wlan0vap13	Down	e0:d9:e3:8a:02:0d	1	Virtual Access Point 13	0	0	0	0	0	0	0	0
wlan0vap14	Down	e0:d9:e3:8a:02:0e	1	Virtual Access Point 14	0	0	0	0	0	0	0	0
wlan0vap15	Down	e0:d9:e3:8a:02:0f	1	Virtual Access Point 15	0	0	0	0	0	0	0	0
wlan0vap2	Down	e0:d9:e3:8a:02:02	1	Virtual Access Point 2	0	0	0	0	0	0	0	0
wlan0vap3	Down	e0:d9:e3:8a:02:03	1	Virtual Access Point 3	0	0	0	0	0	0	0	0
wlan0vap4	Down	e0:d9:e3:8a:02:04	1	Virtual Access Point 4	0	0	0	0	0	0	0	0
wlan0vap5	Down	e0:d9:e3:8a:02:05	1	Virtual Access Point 5	0	0	0	0	0	0	0	0
wlan0vap6	Down	e0:d9:e3:8a:02:06	1	Virtual Access Point 6	0	0	0	0	0	0	0	0
wlan0vap7	Down	e0:d9:e3:8a:02:07	1	Virtual Access Point 7	0	0	0	0	0	0	0	0
wlan0vap8	Down	e0:d9:e3:8a:02:08	1	Virtual Access Point 8	0	0	0	0	0	0	0	0
wlan0vap9	Down	e0:d9:e3:8a:02:09	1	Virtual Access Point 9	0	0	0	0	0	0	0	0
wlan1	Up	e0:d9:e3:8a:02:10	149	Eltex-Guest	59042	19,5 M	0	0	15761	2,2 M	0	0
wlan1vap1	Up	e0:d9:e3:8a:02:11	148	Eltex-Local	99090	16,4 M	0	0	4277	559,2 K	0	0
wlan1vap10	Down	e0:d9:e3:8a:02:1a	1	Virtual Access Point 10	0	0	0	0	0	0	0	0
wlan1vap11	Down	e0:d9:e3:8a:02:1b	1	Virtual Access Point 11	0	0	0	0	0	0	0	0
wlan1vap12	Down	e0:d9:e3:8a:02:1c	1	Virtual Access Point 12	0	0	0	0	0	0	0	0
wlan1vap13	Down	e0:d9:e3:8a:02:1d	1	Virtual Access Point 13	0	0	0	0	0	0	0	0
wlan1vap14	Down	e0:d9:e3:8a:02:1e	1	Virtual Access Point 14	0	0	0	0	0	0	0	0
wlan1vap15	Down	e0:d9:e3:8a:02:1f	1	Virtual Access Point 15	0	0	0	0	0	0	0	0
wlan1vap2	Down	e0:d9:e3:8a:02:12	1	Virtual Access Point 2	0	0	0	0	0	0	0	0
wlan1vap3	Down	e0:d9:e3:8a:02:13	1	Virtual Access Point 3	0	0	0	0	0	0	0	0
wlan1vap4	Down	e0:d9:e3:8a:02:14	1	Virtual Access Point 4	0	0	0	0	0	0	0	0
wlan1vap5	Down	e0:d9:e3:8a:02:15	1	Virtual Access Point 5	0	0	0	0	0	0	0	0
wlan1vap6	Down	e0:d9:e3:8a:02:16	1	Virtual Access Point 6	0	0	0	0	0	0	0	0
wlan1vap7	Down	e0:d9:e3:8a:02:17	1	Virtual Access Point 7	0	0	0	0	0	0	0	0
wlan1vap8	Down	e0:d9:e3:8a:02:18	1	Virtual Access Point 8	0	0	0	0	0	0	0	0
wlan1vap9	Down	e0:d9:e3:8a:02:19	1	Virtual Access Point 9	0	0	0	0	0	0	0	0

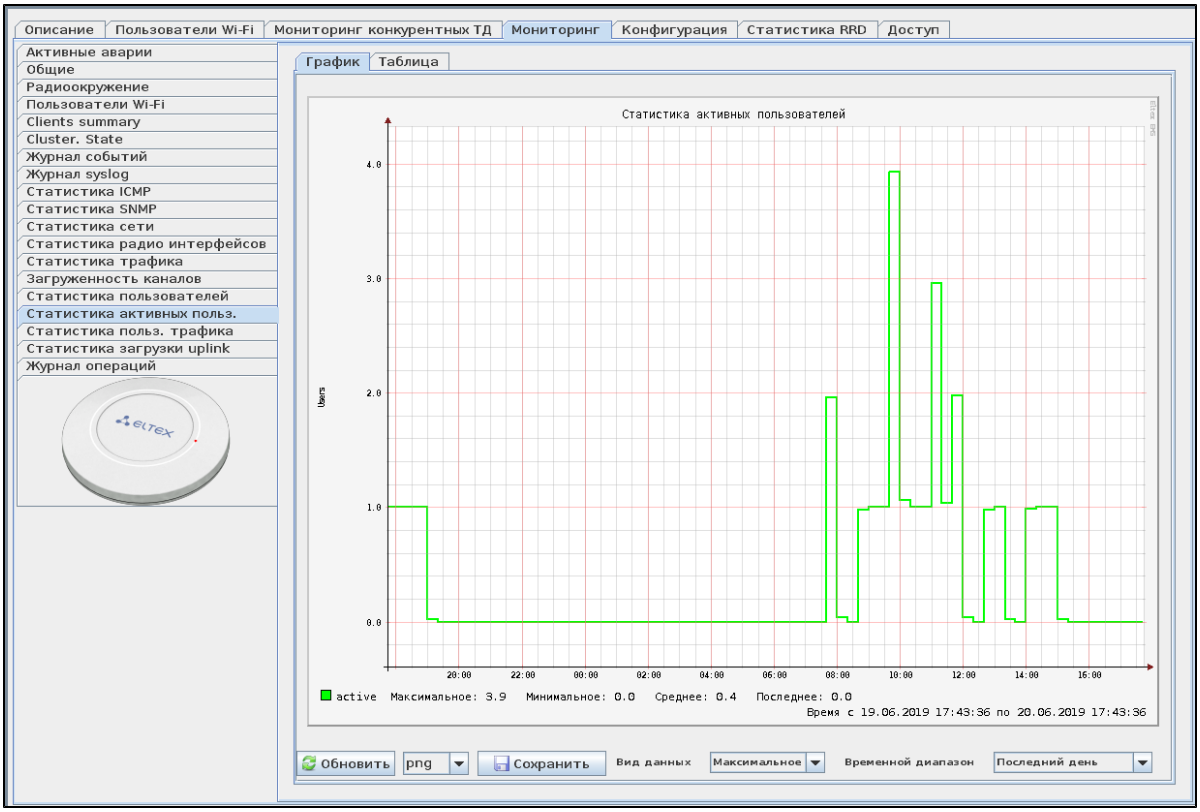
Wi-Fi .

:

- *Wi-Fi* – , ;
- *Status* – ;
- *MAC Address* – MAC- ;
- *VLAN ID* – VLAN;
- *SSID* – , ;
- *Transmitted packets* – , ;
- *Transmitted bytes* – , ;
- *Transmitted drop packets* – , ;
- *Transmitted drop bytes* – , ;
- *Transmitted errors* – ;
- *Received packets* – , ;
- *Received bytes* – , ;
- *Received drop packets* – , ;
- *Received drop bytes* – , ;
- *Received errors* – .

" "

" "



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( ), ( ), ( ) .

, ".

, : Bmp, Gif, Jpeg, Jpg, Png, Wbmp.

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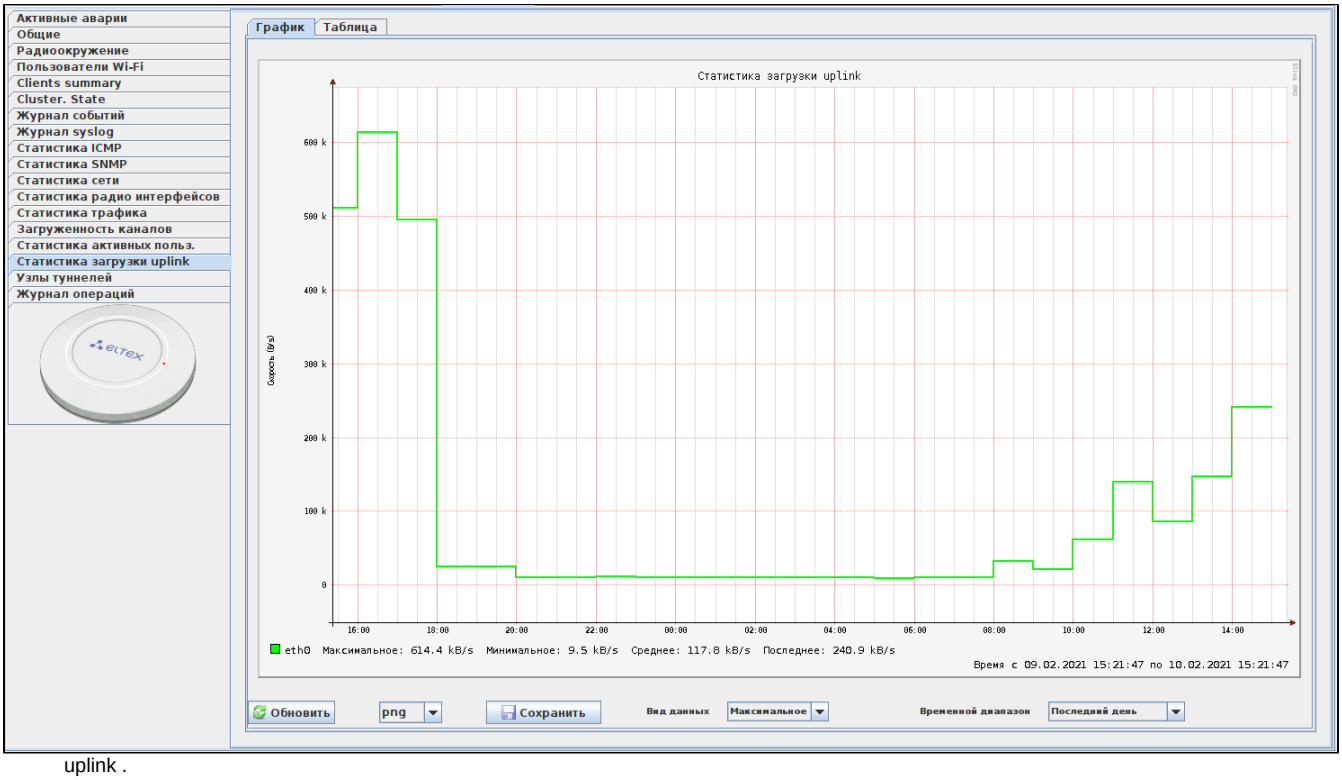
"".

, :

- "" " " -> " " "wirelessCommon";
- " ";
- ("" " " " EMS ").

" uplink"



uplink .

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, , , , .

( ), ( ), ( ) .

, ".

, : Bmp, Gif, Jpeg, Jpg, Png, Wbmp.

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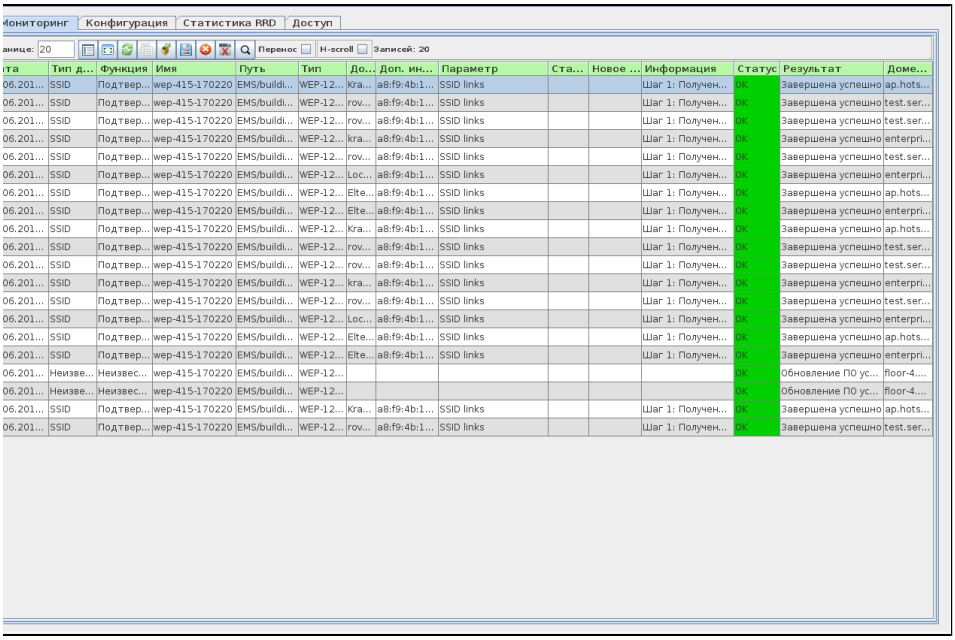
, :

- "" " " -> " " "wirelessCommon";
- " uplink";
- ("" " " " EMS ").
- 2 ("" " " " ()" " ").

" "


Мониторинг
Конфигурация
Статистика RRD
Доступ
аница: 20
Перенос
H-scroll
Записей: 20

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( ) ( ).

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, (" ").

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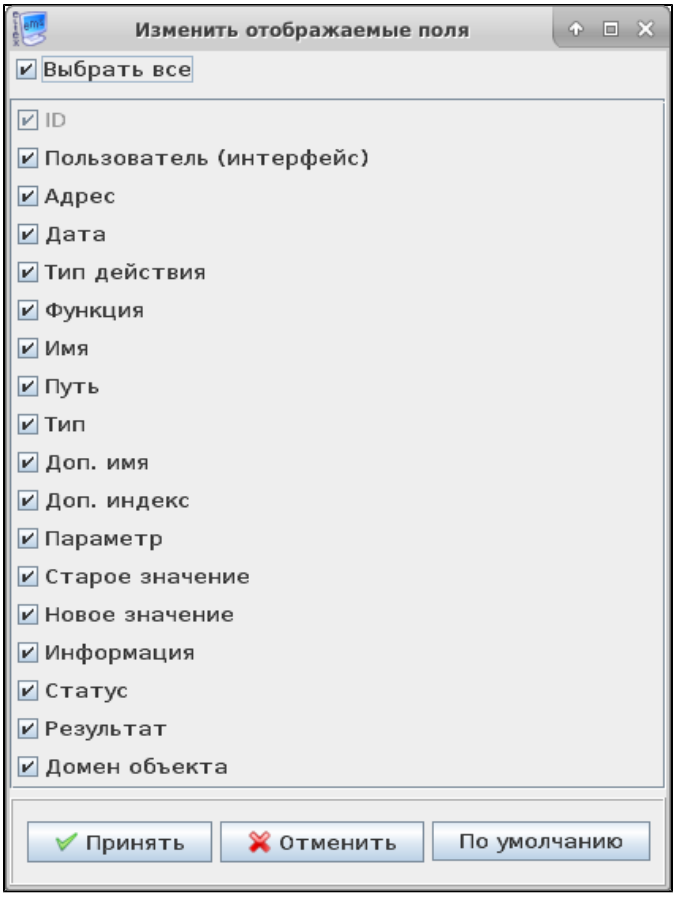
"Limit" , . .

(" ").

" "


Изменить отображаемые поля
Выбрать все
ID
Пользователь (интерфейс)
Адрес
Дата
Тип действия
Функция
Имя
Путь
Тип
Доп. имя
Доп. индекс
Параметр
Старое значение
Новое значение
Информация
Статус
Результат
Домен объекта
Принять
Отменить
По умолчанию

- *ID* – , ;
- *()* – , ;
- – IP- (), ;
- – .. .. .;
- – () ;
- – (,);
- – , ;
- – ;
- – , ;
- . – , ;
- . – , ;
- – ;
- – ;
- – ;
- – ("" "");
- – ;
- - , .

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" "

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"

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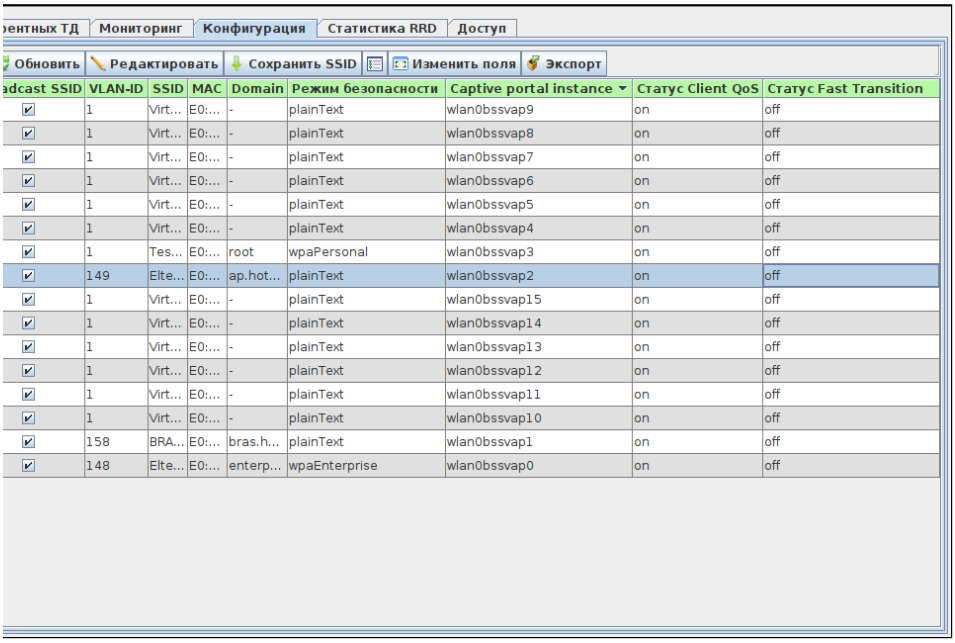
" "

VAP.



adcast SSID	VLAN-ID	SSID	MAC	Domain	Режим безопасности	Captive portal instance	Статус Client QoS	Статус Fast Transition
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap9	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap8	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap7	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap6	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap5	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap4	on	off
✓	1	Tes...	E0:...	root	wpaPersonal	wlan0bssvap3	on	off
✓	149	Elte...	E0:...	ap.hot...	plainText	wlan0bssvap2	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap15	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap14	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap13	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap12	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap11	on	off
✓	1	Virt...	E0:...	-	plainText	wlan0bssvap10	on	off
✓	158	BRA...	E0:...	bras.h...	plainText	wlan0bssvap1	on	off
✓	148	Elte...	E0:...	enterp...	wpaEnterprise	wlan0bssvap0	on	off

:

- *VAP* – :
  - *Up* – ;
  - *Down* – ;
- *VAP (GRE)* - ;
- *Broadcast SSID* – SSID, . , ;
- *VLAN-ID* – VLAN, ;
- *SSID* – ;
- – , :
  - – . ;
  - *WPA Personal* – WPA WPA2;
  - *WPA Enterprise* – , RADIUS-. RADIUS- (4 RADIUS- ,). RADIUS-;
    - *WPA, WPA2, TKIP, AES, TLS* – , ;
    - *Enable pre-authentication* – WPA2. , , "" . , , , RADIUS ;
    - *MFP* – :
      - *Not required* – ;
      - *Capable* – ;
      - *Required* – , CCX5.
    - *(WPA)* – *"WPA Personal";*
- *MAC Auth Type* – MAC-:
  - *Disabled* – MAC-;
  - *RADIUS* – MAC- RADIUS-;
  - *Local* – MAC- , .
- *Broadcast Key Refresh Rate* - , 0-86400;
- – SSID;
- *Band steer* – 5 . 2,4 5 , SSID "*BandSteer";*
- *Support 802.11k* - 802.11k. Airtune;
- *QoS method (down link)* - ;
- *VLAN trunk* – ;
- *General Mode* - General - ;
- *General VLAN ID* - VLAN, / ;
- *802.1p priority (up link)* - ( ), , (802,1p);
- *Wireless Multicast Forwarding* – multicast- , – ;
- *Client QoS* – Client QoS ;

- *Diffserv Policy Up* – Policy, , .
- *Diffserv Policy Down* – Policy, , ;
- *Bandwidth Limit Up, Kbps* – . : /. : 0 – 1331200 /. 0, . , 64 /;
- *Bandwidth Limit Down, Kbps* – , /. : 0 – 1331200 /. 0, . , 64 /;
- *VAP Limit Up, Kbps* – . : /.
- *VAP Limit Down, Kbps* – . : /.

RADIUS – (*"Enabled" "Captive Portal"):*

- *Domain* – ;
- *Active server* - Radius-;
- *RADIUS IP Address* – IP- RADIUS-. RADIUS- (*Backup IP Address 1, 2, 3*);
- *RADIUS IP Address 1, 2, 3* – IP- RADIUS-. RADIUS- (*Backup IP Address 1, 2, 3*);
- *RADIUS Key* – RADIUS-;
- *RADIUS Key 1, 2, 3* – RADIUS-;
- *RADIUS accounting (/)* – "Accounting" RADIUS-;
- *RADIUS accounting period, s* - Radius-, ;
- *Radius* - , Radius.

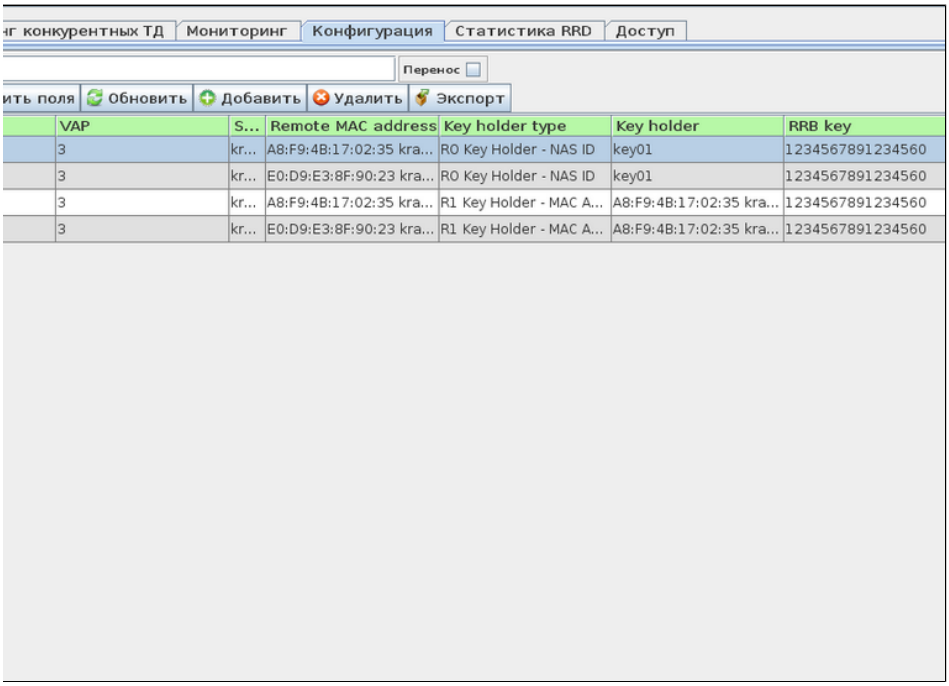
Minimal signal – Wi-Fi , . :

- *Enabled* – Minimal Signal;
- *Level, dBm* – dBm, ;
- *Timeout, s* **–** , ;
- *Roaming level, dBm* **–** dBm, . , Minimal signal (Minimal signal=-75, Roaming level , -70).

Captive portal – hotspot:

- *Enabled* – (/);
- *Virtual portal name* – , Wi-Fi VAP;
- *Protocol* – , : http; https;
- *Verification* – :
  - *Captive Portal* – , Radius- Captive portal;
  - *Guest* – , ;
  - *Radius* – Radius-;
- *Redirect* - , *"Redirect URL";*
  - *Redirect URL* - URL, . *"Redirect"*;
- *External* – , captive portal. , *"External URL";*
  - *External URL* – Captive Portal, hotspot. *" External";*
- *Away Time, min* – , . , . 0-1440 , – 60 ;
- *Session Timeout* – . . 0-1440 . "0" – ;
- *User mobility domain* – , , – 1024 .

"Key holder data"



.
, csv-, "":

- *Interface* - ;
- *VAP* – ;
- *SSID* – ;
- *Remote MAC address* – MAC- VAP ;
- *Key holder type* – ( );
- *Key holder* – ;
- *RRB key* – RRM-.

" ".

"Global RADIUS"

.

"QoS. Main"

.

"QoS. EDCA parameters"

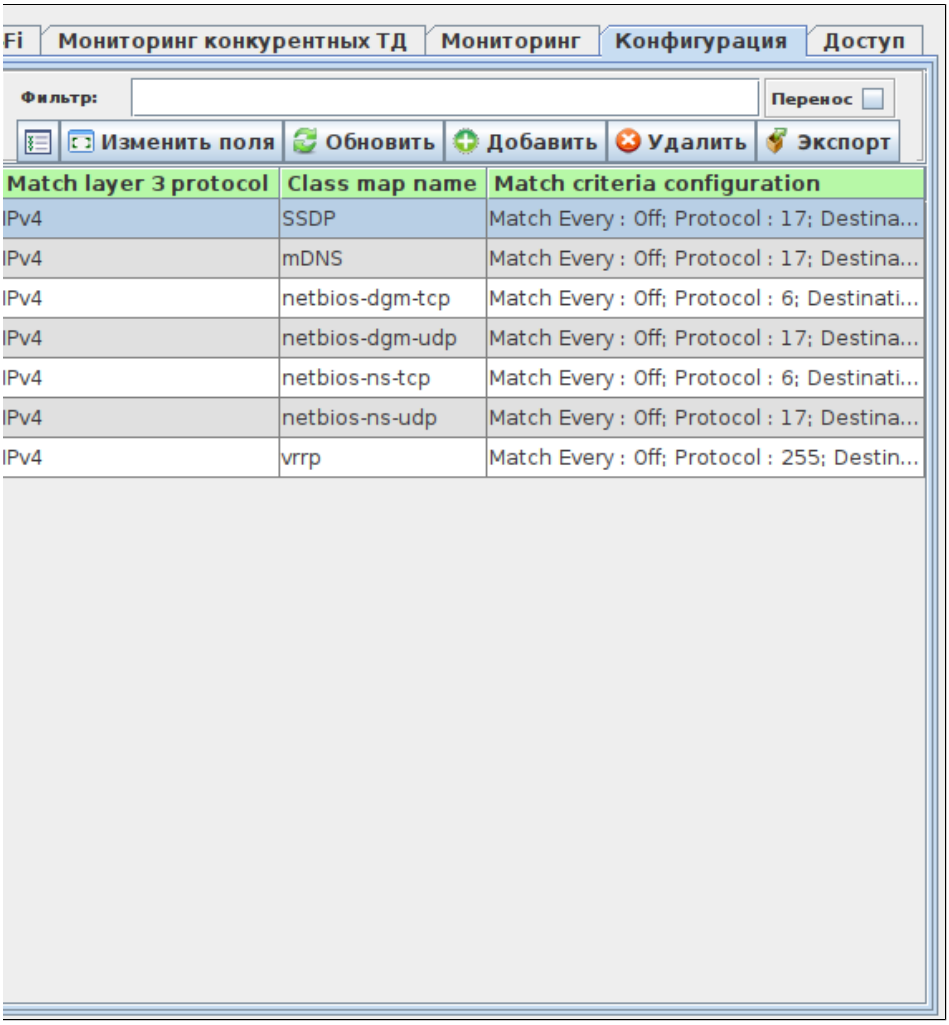
.

"Client QoS. Global"

.

"Client QoS. Class map"

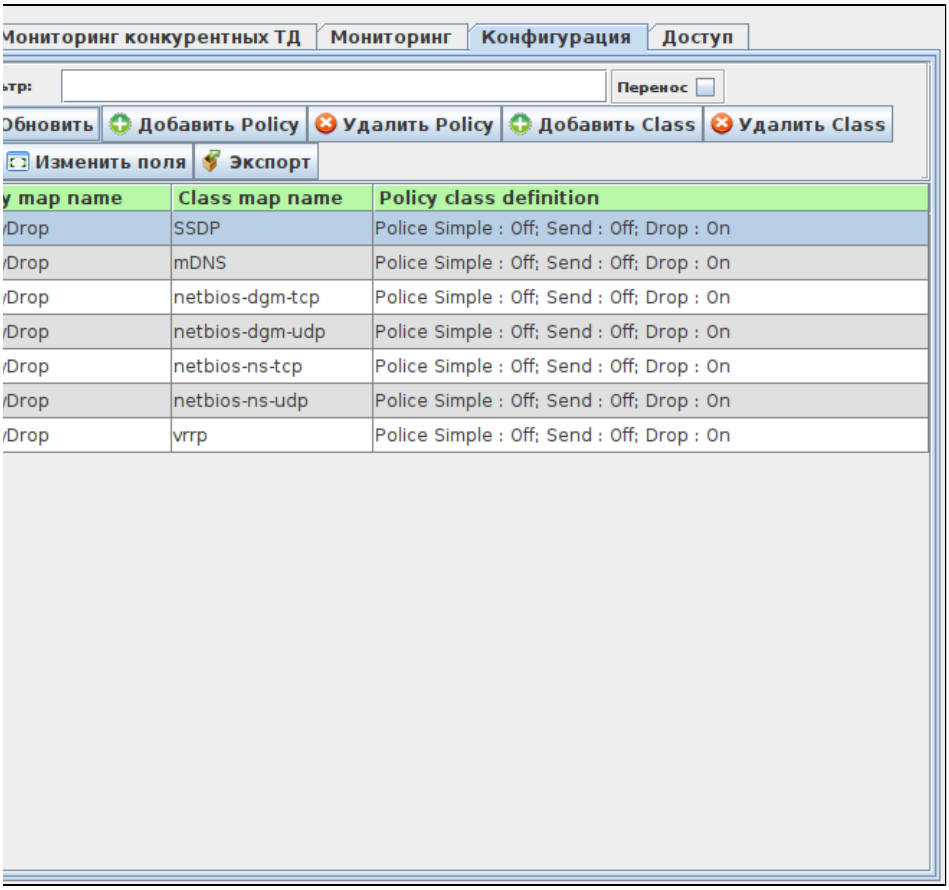
. . , .



. :

- *Match layer 3 protocol* - , (IPv4 IPv6);
- *Class map name* - ;
- *Match criteria configuration* - . On, . Off, .

"Client QoS. Policy map"

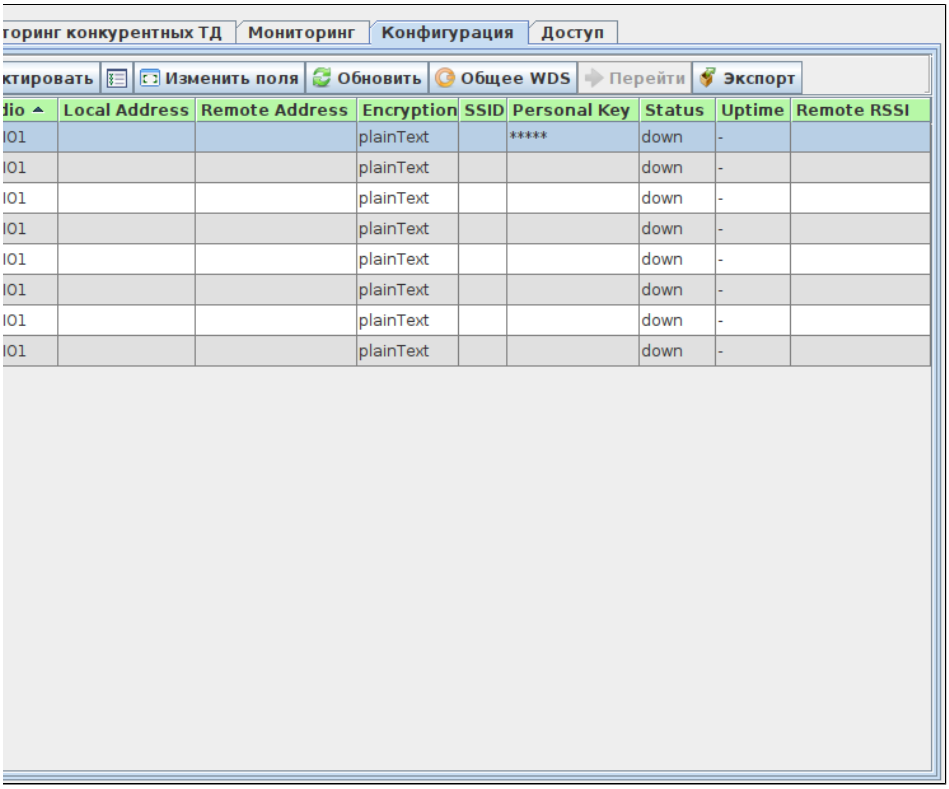


, Layer 2 Layer 3 (CoS, DSCP, Precendence), . "Policy Map", "lass Map". , .

:

- *Policy Map Name* – «Policy Map»;
- *Class Map Name* – , *«Class Map»*;
- *Policy Class definition* - .

"WDS"



dio	Local Address	Remote Address	Encryption	SSID	Personal Key	Status	Uptime	Remote RSSI
01			plainText		*****	down	-	
01			plainText			down	-	
01			plainText			down	-	
01			plainText			down	-	
01			plainText			down	-	
01			plainText			down	-	
01			plainText			down	-	
01			plainText			down	-	

.

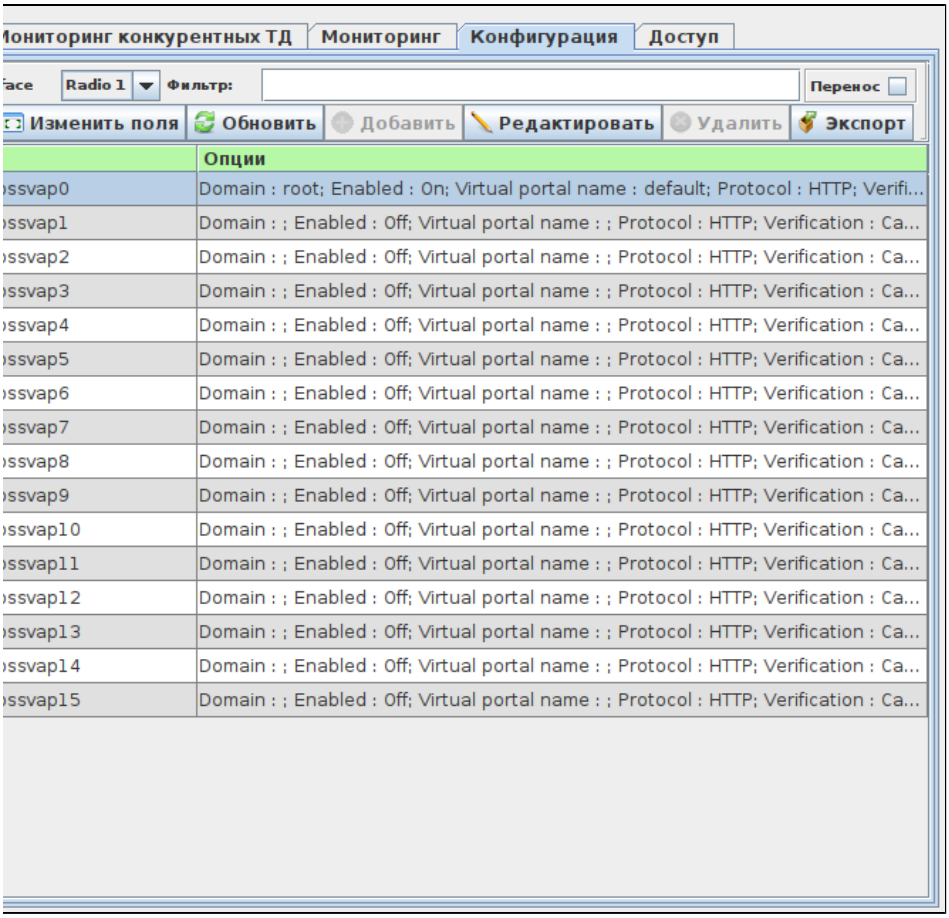
:

- *Index* - ;
- *Radio* - ;
- *Local Address* - IP- ;
- *Remote Address* - IP- ;
- *Encryption* - ;
- *SSID* - ;
- *Personal key* - ;
- *Status* - ;
- *Uptime* - ;
- *Remote RSSI* - .

"Captive Portal. Global"

.

"Captive Portal. Instance"



:

- - ;
- - .

"Cluster. Main"

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" "

.

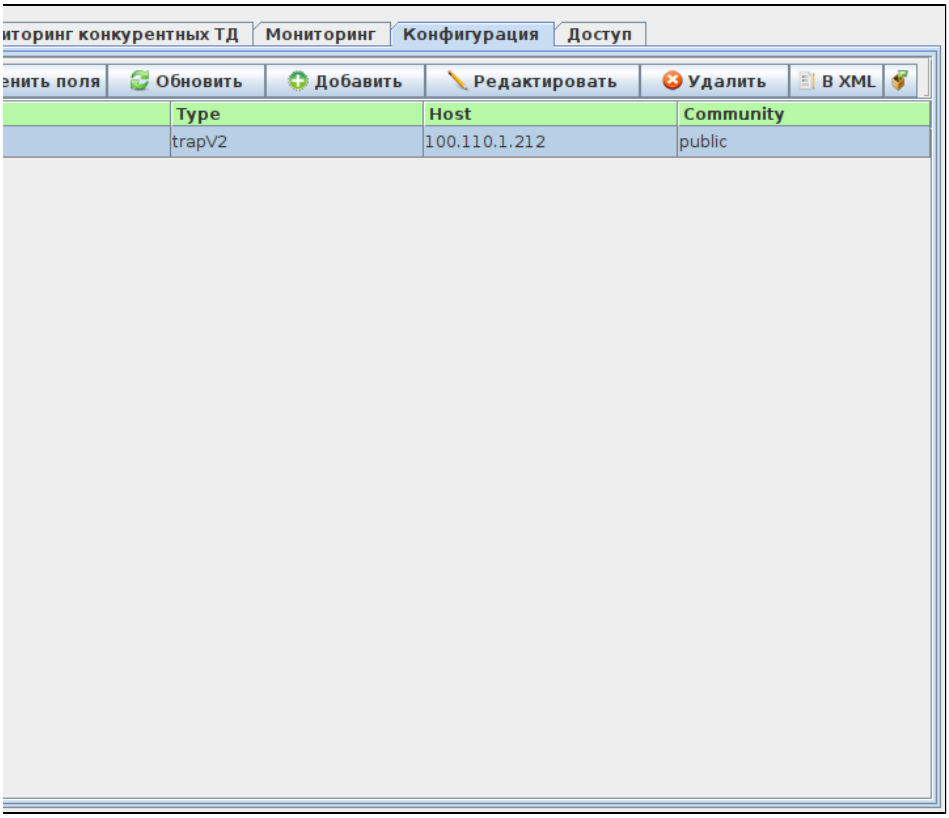
" "

.

"SNMP"

.

"SNMP Trap"



:

- *ID* - ;
- *Type* - ;
- *Host* - ;
- *Community* - SNMP.

''''

.