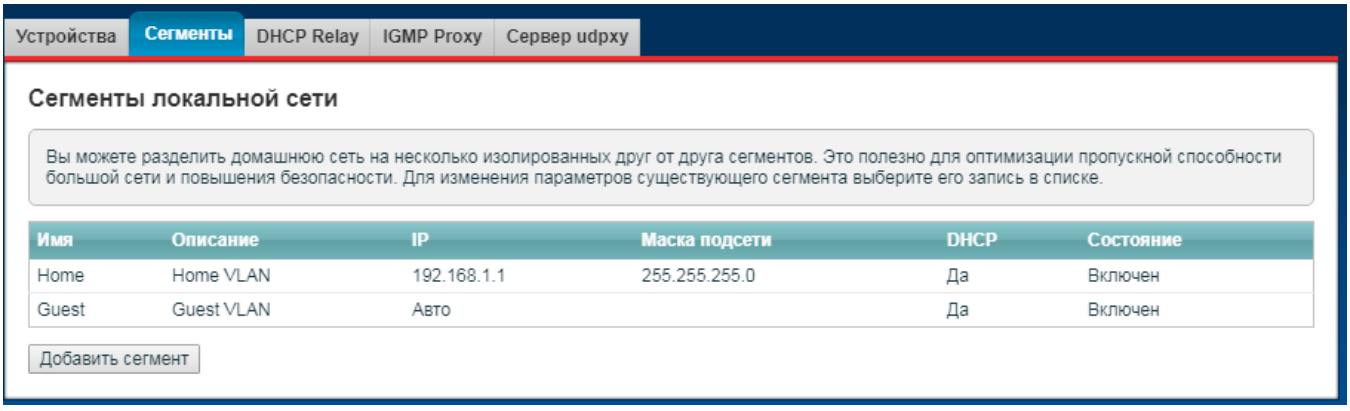
Zyxel Keenetic

1.4.1411 WNAM / Zyxel Keenetic, . Keenetic CoovaChilli, RADIUS, , .

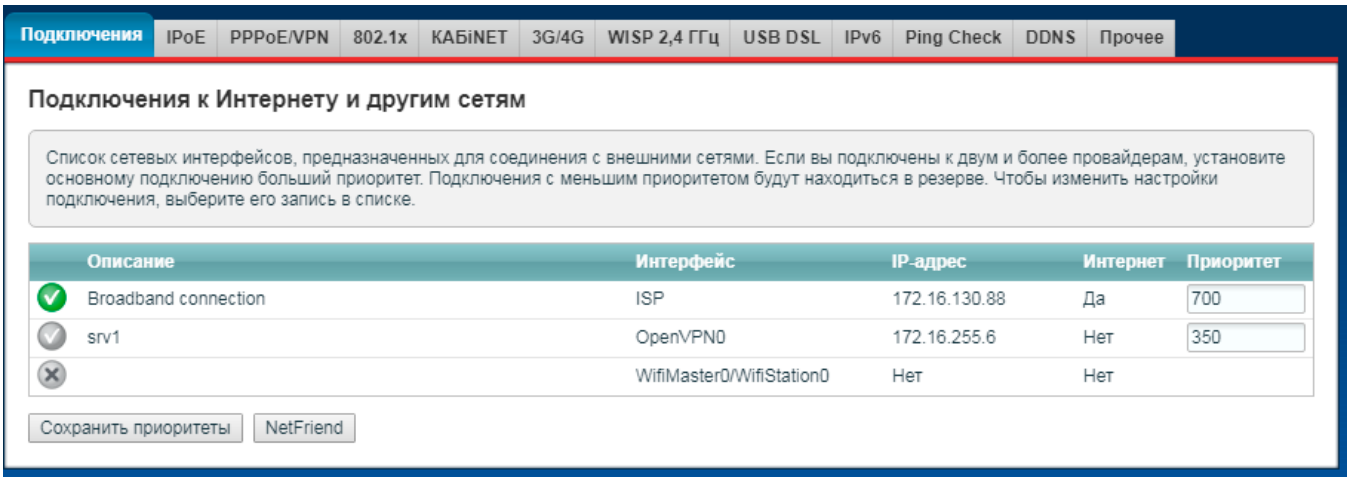
Keenetic Giga II 2.10.A.7.0. WAN 172.16.130.88, LAN 192.168.1.1. WNAM , OpenVPN , ("VPN- ").

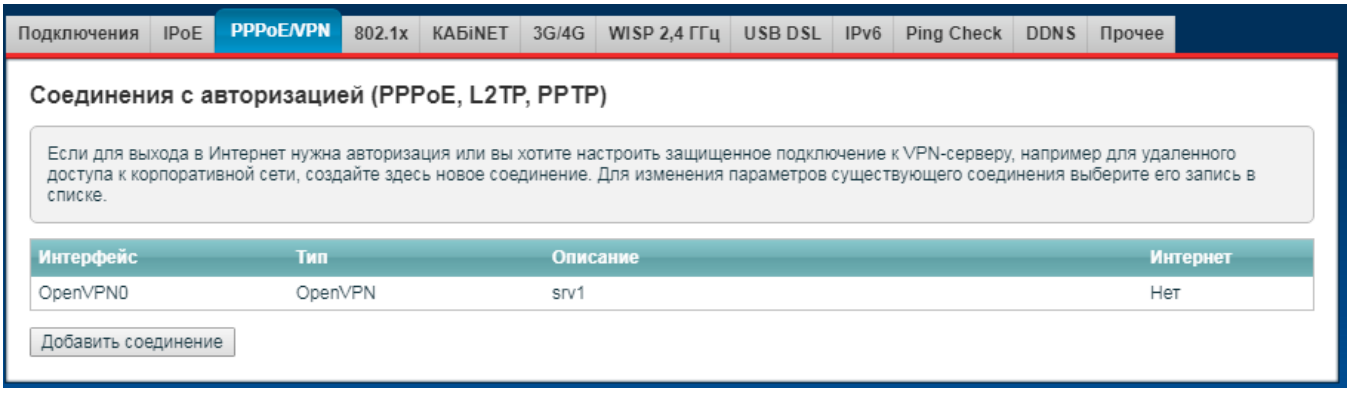


Home, .

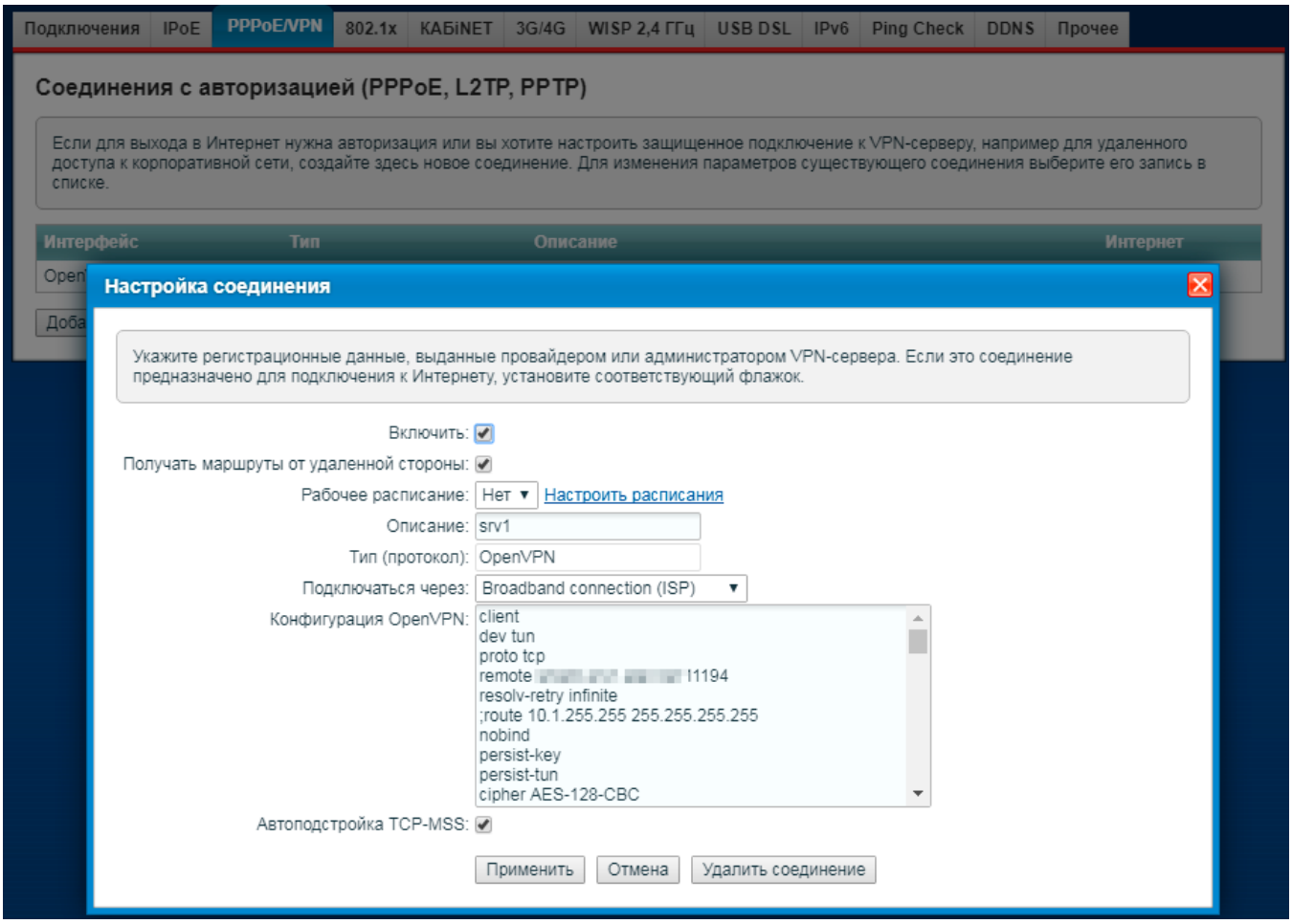


WAN , OpenVPN 172.16.255.6.





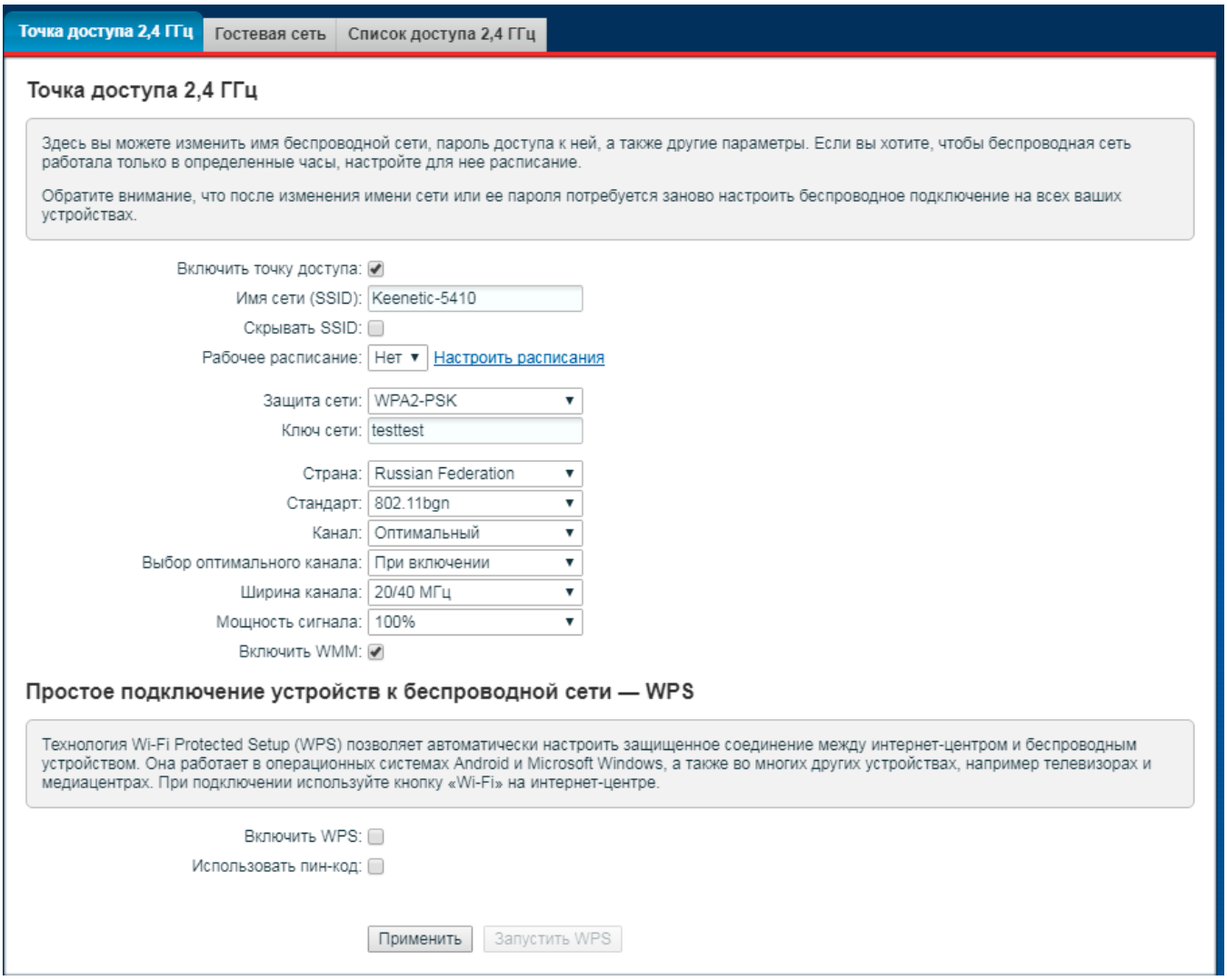
OpenVPN . -, (Mikrotik).



:

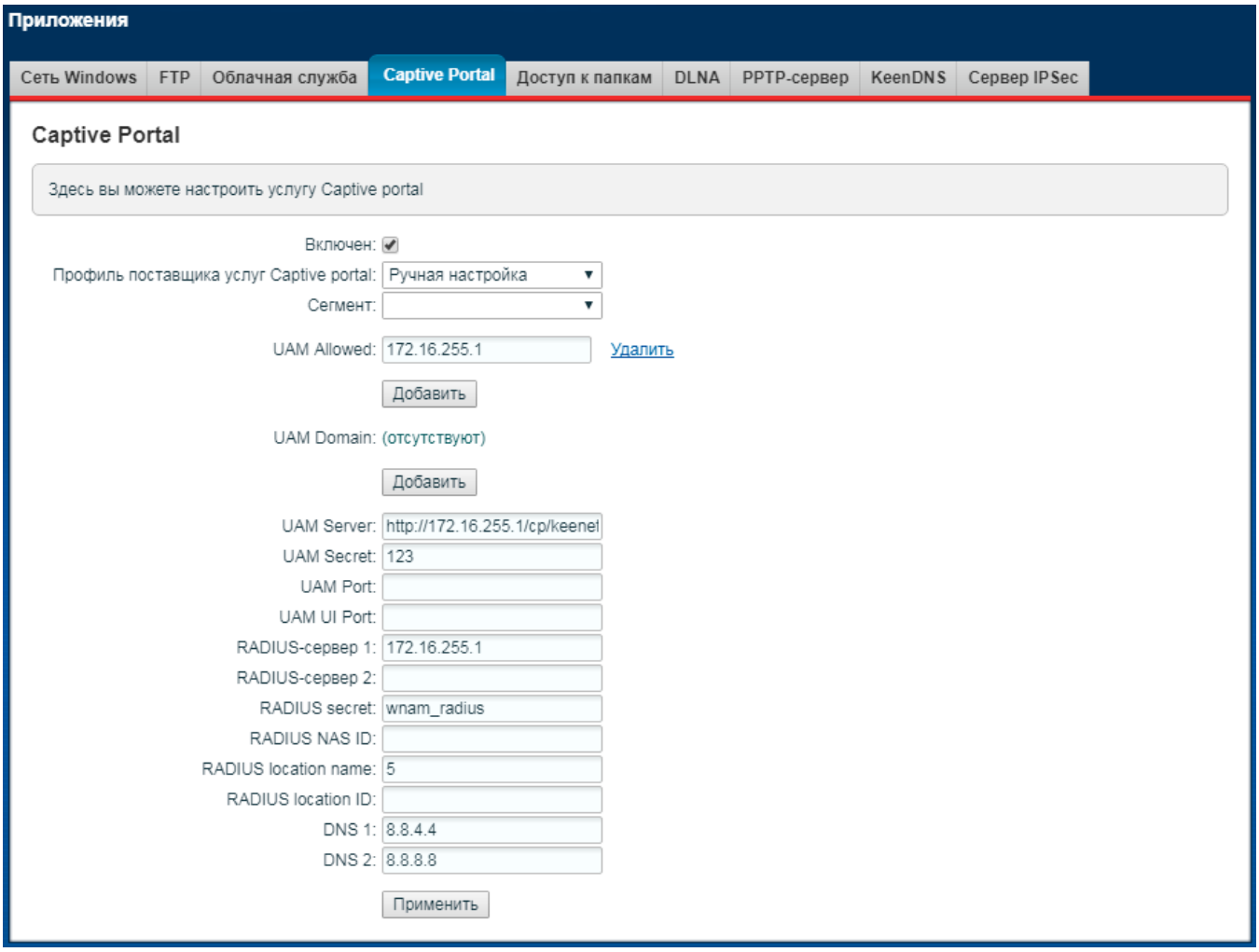
```
client
dev tun
proto tcp
remote wnam-srv1.provider.net 11194
resolv-retry infinite
nobind
persist-key
persist-tun
cipher AES-128-CBC
auth md5
verb 3
<ca>
-----BEGIN CERTIFICATE-----
      openvpn
-----END CERTIFICATE-----
</ca>
<auth-user-pass>
keenetic
keenetic
</auth-user-pass>
```

( ) , . Wi-Fi .



Captive Portal, ChilliSpot. :

- " ", ;
- ;
- "UAM Allowed" IP- WNAM - (Walled Garden);
- "UAM Server" WNAM (, WNAM, : http://172.16.255.1/cp/keenetic);
- "UAM Secret" (, "" (. .));
- IP- RADIUS- (WNAM) RADIUS- (, /etc/freeradius/clienst.conf WNAM);
- "RADIUS Location ID" , Keenetic WNAM (, IP- Keenetic).



. telnet.

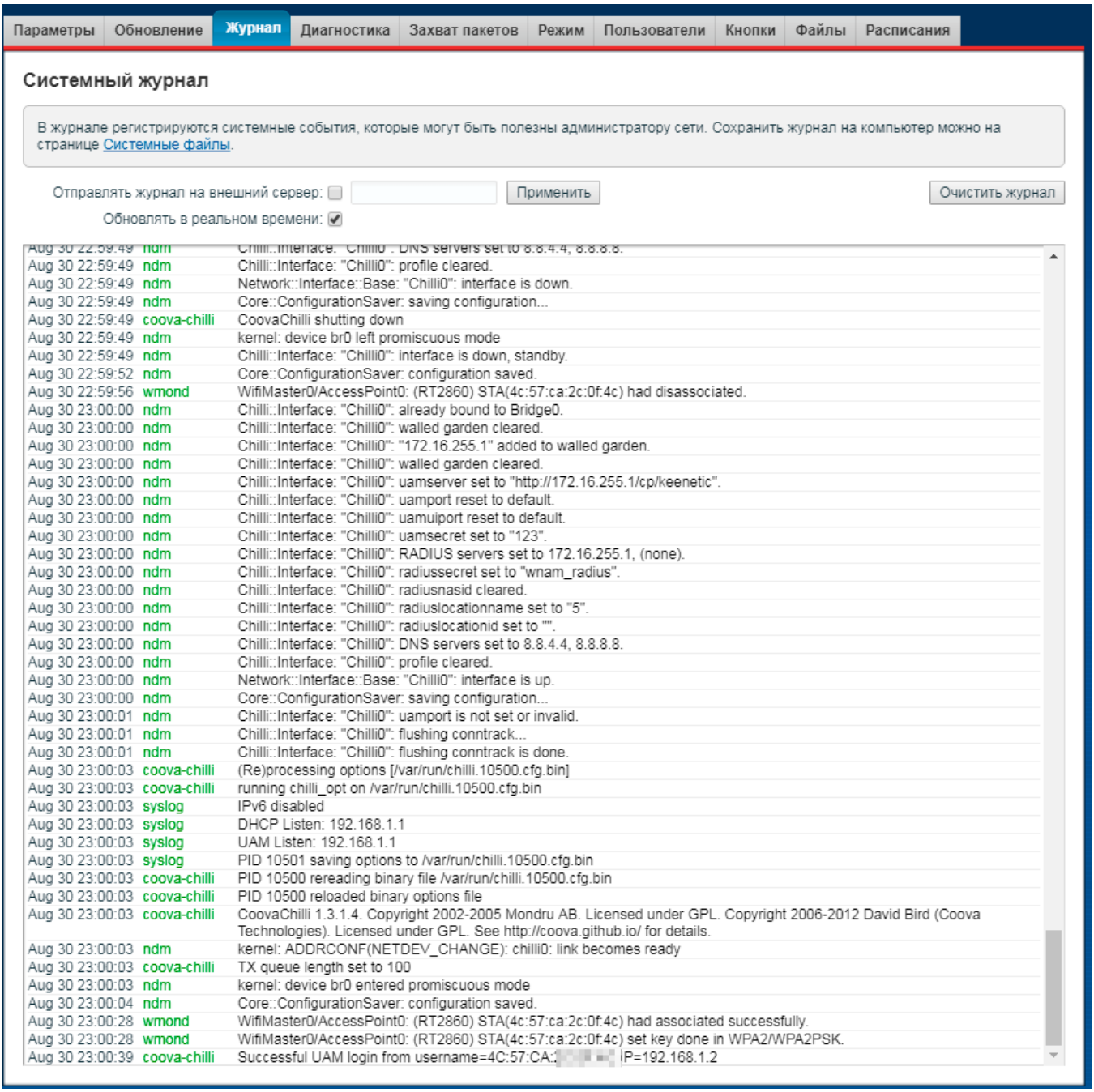
(RADIUS , , ,):

```
no ppe software
no ppe hardware
```

NAS-IP-Address RADIUS-, WNAM . WAN :

```
interface Chilli0 chilli nasip 172.16.255.6
```

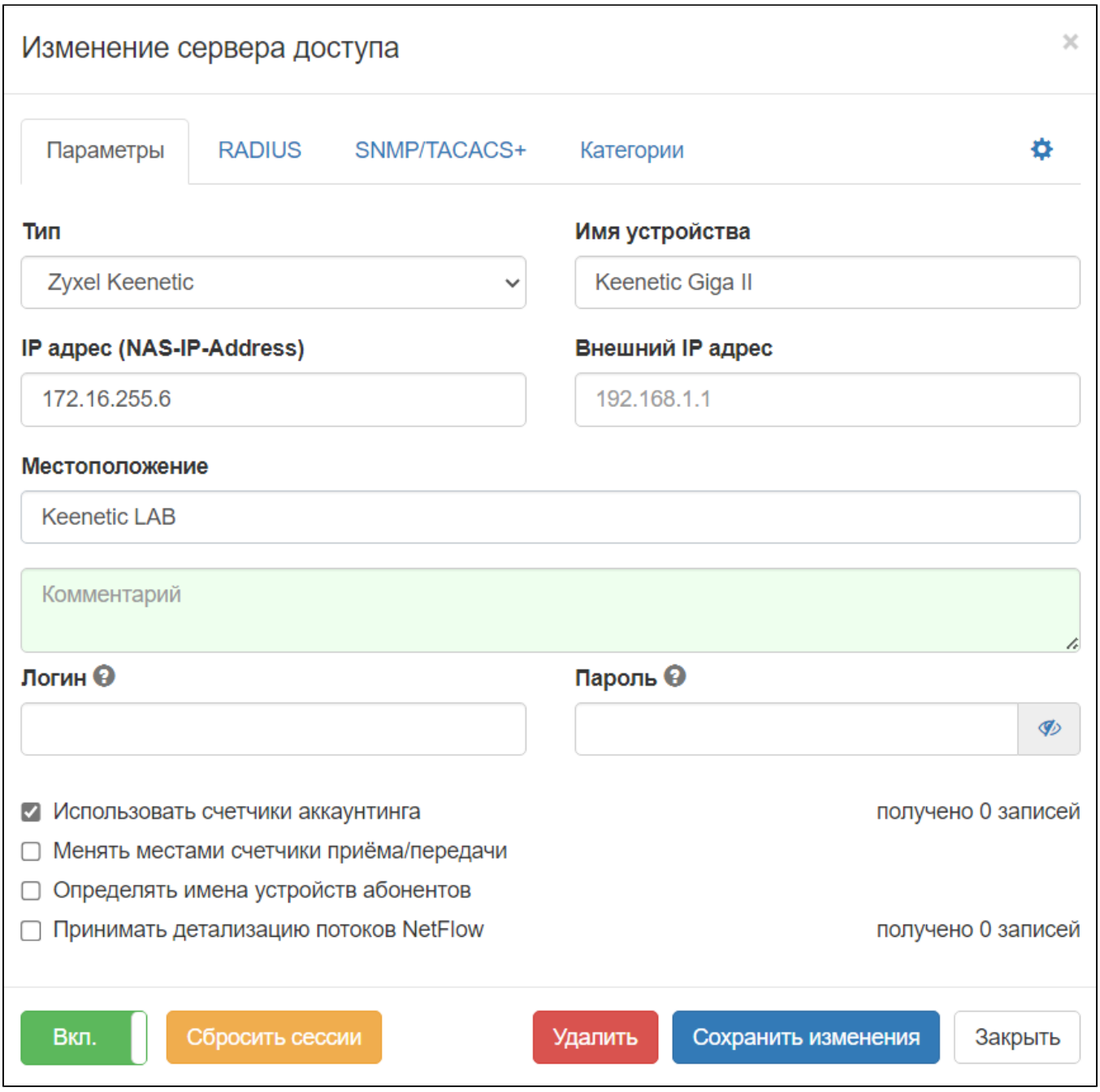
Keenetic . , CoovaChilli OpenVPN-:



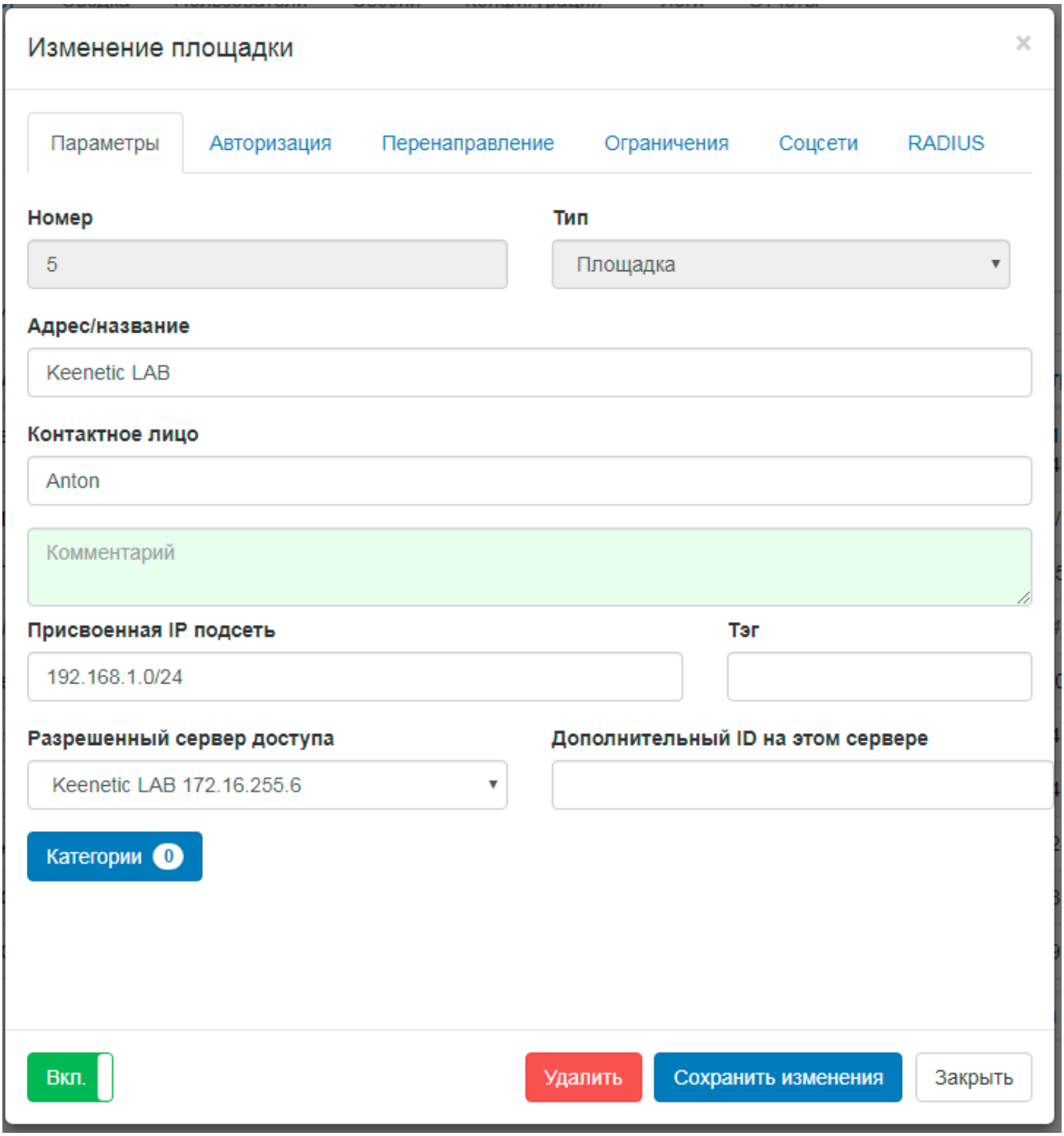
(startup-config.txt).

WNAM. OpenVPN-, Keenetic **ipp.txt users.txt**, RADIUS- **/etc/freeradius/clients.conf**.

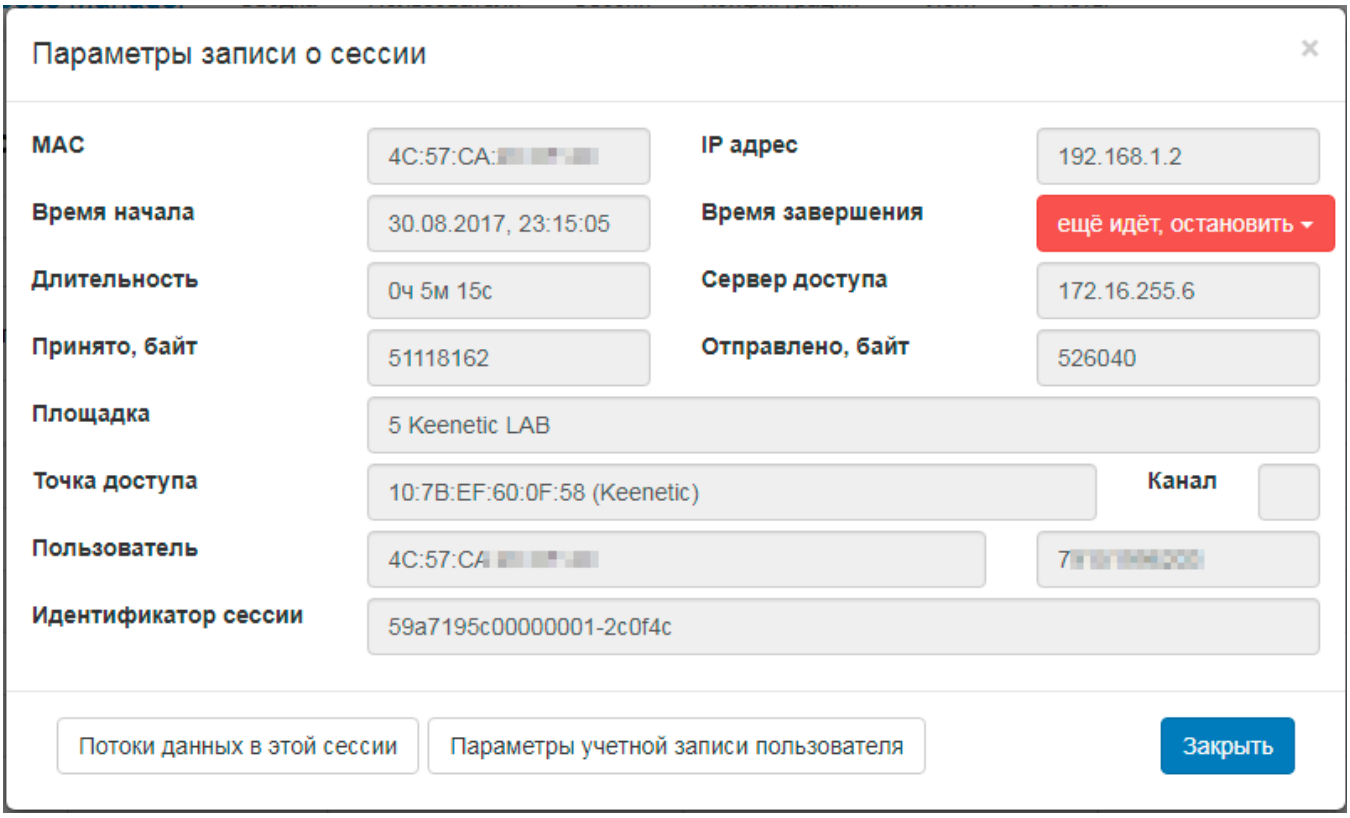
- WNAM Keeentic, IP-, (API), " " ("" " " "").


Изменение сервера доступа
Параметры
RADIUS
SNMP/TACACS+
Категории
Тип
Zyxel Keenetic
Имя устройства
Keenetic Giga II
IP адрес (NAS-IP-Address)
172.16.255.6
Внешний IP адрес
192.168.1.1
Местоположение
Keenetic LAB
Комментарий
Логин
Пароль
Использовать счетчики аккаунтинга
получено 0 записей
Менять местами счетчики приёма/передачи
Определять имена устройств абонентов
Принимать детализацию потоков NetFlow
получено 0 записей
Вкл.
Сбросить сессии
Удалить
Сохранить изменения
Закрыть

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


Изменение площадки
Параметры
Авторизация
Перенаправление
Ограничения
Соцсети
RADIUS
Номер
5
Тип
Площадка
Адрес/название
Keenetic LAB
Контактное лицо
Anton
Комментарий
Присвоенная IP подсеть
192.168.1.0/24
Тэг
Разрешенный сервер доступа
Keenetic LAB 172.16.255.6
Дополнительный ID на этом сервере
Категории 0
Вкл.
Удалить
Сохранить изменения
Закрыть

Wi-Fi WNAM .



- **/var/log/tomcat8/catalina.out** :

```
23:42:13.325 DEBUG [c.n.w.web.cp.CaptivePortalController:630] - CP Keenetic
redirect: cid=4C:57:CA:XX:XX:XX, ip=192.168.1.2, ap='10:7b:ef:60:0f:58',
Keenetic=192.168.1.1:3990, challenge=fb39b73e23bd70cb0766e604b3e7c9cb
23:42:13.343 DEBUG [c.n.w.web.cp.CaptivePortalController:2158] -
processAuthRequest KEENETIC: username=4C:57:CA:XX:XX:XX, ip=192.168.1.2,
server=192.168.1.1:3990, site_id=5, domain_id=fb39b73e23bd70cb0766e604b3e7c9cb,
dst='http://bash.im'
23:42:13.343 DEBUG [c.n.w.web.cp.CaptivePortalController:2327] -
processRedirectRequestCi mac=4C:57:CA:XX:XX:XX, method=FORM,
formName=58bdc4965e4df6273ac60210, redirectUrl=http://bash.im, key=a064a5a8-f940-
4a49-af65-e79c306e4416
23:42:17.111 DEBUG [c.n.w.web.cp.CaptivePortalController:2016] - RedirectCi
login: site_id=5, username=4C:57:CA:XX:XX:XX, dst='http://bash.im',
dst_extra='null'
23:42:17.112 DEBUG [c.n.w.web.cp.CaptivePortalController:2752] - loginAtNasCi
KEENETIC mac=4C:57:CA:XX:XX:XX, ip=192.168.1.2, server=192.168.1.1:3990, dst='htt
p://bash.im'
23:42:17.115 DEBUG [com.netams.wnam.web.cp.CoovaChilli:62] - backToKeenetic
login len=501, server='192.168.1.1:3990', username=4C:57:CA:XX:XX:XX,
enc_password=8b58c44d54d202af, dst='http://bash.im'
23:42:17.235 INFO [WnamRadius:659] - AUTH for new session ID=59a71fbb00000001-
2c0f4c, request MAC=4C:57:CA:XX:XX:XX, IP=192.168.1.2, cust_clientid=null
23:42:17.261 INFO [WnamRadius:842] - ACCT Start new session ID=59a71fbb00000001-
2c0f4c, MAC=4C:57:CA:XX:XX:XX, IP=192.168.1.2, NAS=172.16.255.6
23:47:17.764 INFO [WnamRadius:842] - ACCT Interim-Update existing session
ID=59a71fbb00000001-2c0f4c, duration=00:05:00, MAC=4C:57:CA:XX:XX:XX, IP=192.
168.1.2, NAS=172.16.255.6
23:52:17.162 INFO [WnamRadius:842] - ACCT Interim-Update existing session
ID=59a71fbb00000001-2c0f4c, duration=00:09:59, MAC=4C:57:CA:XX:XX:XX, IP=192.
168.1.2, NAS=172.16.255.6
23:57:17.417 INFO [WnamRadius:842] - ACCT Interim-Update existing session
ID=59a71fbb00000001-2c0f4c, duration=00:15:00, MAC=4C:57:CA:XX:XX:XX, IP=192.
168.1.2, NAS=172.16.255.6
00:01:21.056 INFO [WnamRadius:842] - ACCT Stop existing session
ID=59a71fbb00000001-2c0f4c, duration=00:19:03, MAC=4C:57:CA:XX:XX:XX, IP=192.
168.1.2, NAS=172.16.255.6
```

C RADIUS- (freeradius -X):

```
rad_recv: Access-Request packet from host 172.16.255.6 port 53932, id=10,
length=262
 ChilliSpot-Version = "1.3.1.4"
 User-Name = "4C:57:CA:XX:XX:XX"
 User-Password = "\261-f\324\345\220\331D"
 Service-Type = Login-User
 Acct-Session-Id = "59a7168600000001"
 Framed-IP-Address = 192.168.1.2
 NAS-Port-Type = Wireless-802.11
 NAS-Port = 1
 NAS-Port-Id = "00000001"
 Calling-Station-Id = "4C-57-CA-XX-XX-XX"
 Called-Station-Id = "10-7B-EF-60-0F-58"
 NAS-IP-Address = 172.16.255.6
 NAS-Identifier = "nas01"
 WISPr-Location-ID = "--dns1=8.8.4.4"
 WISPr-Location-Name = "5"
 WISPr-Logoff-URL = "http://192.168.1.1:3990/logoff"
 Message-Authenticator = 0x0f04a9f4438becd4311576f74febd188
```

```
# Executing section authorize from file /etc/freeradius/sites-enabled/default
+group authorize {
++[preprocess] = ok
[pap] WARNING! No "known good" password found for the user. Authentication may
fail because of this.
++[pap] = noop
++[chap] = noop
rlm_perl: RECV: IO::Socket::INET=GLOB(0xfd2ec0)
rlm_perl: authorize reply: .OK.
rlm_perl: Added pair Message-Authenticator = 0x0f04a9f4438becd4311576f74febd188
rlm_perl: Added pair NAS-Port = 1
rlm_perl: Added pair Framed-IP-Address = 192.168.1.2
rlm_perl: Added pair Acct-Session-Id = 59a7168600000001
rlm_perl: Added pair NAS-Identifier = nas01
rlm_perl: Added pair Called-Station-Id = 10-7B-EF-60-0F-58
rlm_perl: Added pair User-Name = 4C:57:CA:XX:XX:XX
rlm_perl: Added pair WISPr-Logoff-URL = http://192.168.1.1:3990/logoff
rlm_perl: Added pair NAS-IP-Address = 172.16.255.6
rlm_perl: Added pair NAS-Port-Type = Wireless-802.11
rlm_perl: Added pair User-Password = \261-f\324\345\220\331D
rlm_perl: Added pair NAS-Port-Id = 00000001
rlm_perl: Added pair ChilliSpot-Version = 1.3.1.4
rlm_perl: Added pair Calling-Station-Id = 4C-57-CA-XX-XX-XX
rlm_perl: Added pair WISPr-Location-Name = 5
rlm_perl: Added pair Service-Type = Login-User
rlm_perl: Added pair WISPr-Location-ID = --dns1=8.8.4.4
rlm_perl: Added pair Acct-Interim-Interval = 300
rlm_perl: Added pair Cleartext-Password = \261-f\324\345\220\331D
rlm_perl: Added pair Auth-Type = PAP
++[perl] = ok
+} # group authorize = ok
Found Auth-Type = PAP
# Executing group from file /etc/freeradius/sites-enabled/default
+group PAP {
[pap] login attempt with password ""
[pap] Using clear text password ""
[pap] User authenticated successfully
++[pap] = ok
+} # group PAP = ok
 WARNING: Empty post-auth section. Using default return values.
# Executing section post-auth from file /etc/freeradius/sites-enabled/default
Sending Access-Accept of id 10 to 172.16.255.6 port 53932
 Acct-Interim-Interval += 300
Finished request 0.
Going to the next request


Waking up in 4.9 seconds.
rad_recv: Accounting-Request packet from host 172.16.255.6 port 45617, id=1,
length=206
 ChilliSpot-Version = "1.3.1.4"
 ChilliSpot-Attr-10 = 0x00000001
 Event-Timestamp = " 30 2017 22:50:06 MSK"
 User-Name = "4C:57:CA:XX:XX:XX"
 Acct-Status-Type = Start
 Acct-Session-Id = "59a7168600000001"
 Framed-IP-Address = 192.168.1.2
 NAS-Port-Type = Wireless-802.11
 NAS-Port = 1
 NAS-Port-Id = "00000001"
 Calling-Station-Id = "4C-57-CA-XX-XX-XX"
 Called-Station-Id = "10-7B-EF-60-0F-58"
 NAS-IP-Address = 172.16.255.6
 NAS-Identifier = "nas01"
 WISPr-Location-ID = "--dns1=8.8.4.4"
 WISPr-Location-Name = "5"
```

```
# Executing section preacct from file /etc/freeradius/sites-enabled/default
+group preacct {
++[preprocess] = ok
[acct_unique] Hashing 'NAS-Port = 1,NAS-Identifier = "nas01",NAS-IP-Address =
172.16.255.6,Acct-Session-Id = "59a7168600000001",User-Name = "4C:57:CA:XX:XX:
XX"'
[acct_unique] Acct-Unique-Session-ID = "7e353f41a7bfac9e".
++[acct_unique] = ok
+} # group preacct = ok
# Executing section accounting from file /etc/freeradius/sites-enabled/default
+group accounting {
[radutmp] expand: /var/log/freeradius/radutmp -> /var/log/freeradius/radutmp
[radutmp] expand: %{User-Name} -> 4C:57:CA:XX:XX:XX
++[radutmp] = ok
rlm_perl: RECV: IO::Socket::INET=GLOB(0xfd2ec0)
rlm_perl: Added pair NAS-Port = 1
rlm_perl: Added pair ChilliSpot-Attr-10 = 0x00000001
rlm_perl: Added pair Framed-IP-Address = 192.168.1.2
rlm_perl: Added pair Acct-Session-Id = 59a7168600000001
rlm_perl: Added pair NAS-Identifier = nas01
rlm_perl: Added pair Called-Station-Id = 10-7B-EF-60-0F-58
rlm_perl: Added pair User-Name = 4C:57:CA:XX:XX:XX
rlm_perl: ERROR: Failed to create pair Event-Timestamp =  30 2017 22:50:06 MSK
rlm_perl: Added pair NAS-IP-Address = 172.16.255.6
rlm_perl: Added pair Acct-Unique-Session-Id = 7e353f41a7bfac9e
rlm_perl: Added pair NAS-Port-Type = Wireless-802.11
rlm_perl: Added pair NAS-Port-Id = 00000001
rlm_perl: Added pair ChilliSpot-Version = 1.3.1.4
rlm_perl: Added pair Calling-Station-Id = 4C-57-CA-XX-XX-XX
rlm_perl: Added pair WISPr-Location-Name = 5
rlm_perl: Added pair Acct-Status-Type = Start
rlm_perl: Added pair WISPr-Location-ID = --dns1=8.8.4.4
++[perl] = ok
[attr_filter.accounting_response] expand: %{User-Name} -> 4C:57:CA:XX:XX:XX
attr_filter: Matched entry DEFAULT at line 12
++[attr_filter.accounting_response] = updated
+} # group accounting = updated
Sending Accounting-Response of id 1 to 172.16.255.6 port 45617
Finished request 1.
```