

1. -

, -, WNAM, -, . / . , WNAM .

2. -

, -, , .
, , WNAM "" " ... 5" (1). , - (), -, .
, , (), - . :

1. . WNAM -, . .
2. -, . WNAM , . :
 - a. HTTP-, :telnet__443, , . ;
 - b. SMPP-, :telnet__smpp_, , /etc/kannel/kannel.conf. SMPP- IP- , . IP- , .
3. , kannel (SMPP-). /var/log/kannel/bearerbox.log :

```
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP[provider]: Sending enquire link:
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP PDU 0x7f08e0000f60 dump:
2022-02-28 22:31:19 [640] [6] DEBUG: type_name: enquire_link
2022-02-28 22:31:19 [640] [6] DEBUG: command_id: 21 = 0x00000015
2022-02-28 22:31:19 [640] [6] DEBUG: command_status: 0 = 0x00000000
2022-02-28 22:31:19 [640] [6] DEBUG: sequence_number: 1357198 = 0x0014b58e
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP PDU dump ends.
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP[provider]: throughput (0.00,0.00)
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP[provider]: throughput (0.00,0.00)
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP[provider]: Got PDU:
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP PDU 0x7f08e0000f60 dump:
2022-02-28 22:31:19 [640] [6] DEBUG: type_name: enquire_link_resp
2022-02-28 22:31:19 [640] [6] DEBUG: command_id: 2147483669 = 0x80000015
2022-02-28 22:31:19 [640] [6] DEBUG: command_status: 0 = 0x00000000
2022-02-28 22:31:19 [640] [6] DEBUG: sequence_number: 1357198 = 0x0014b58e
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP PDU dump ends.
2022-02-28 22:31:19 [640] [6] DEBUG: SMPP[provider]: throughput (0.00,0.00)
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SMPP- - command_status: 0. 0, SMPP- (). , -, , : , .- , . "" . , - : (" ", ,). , .

Выбран фильтр (очистить)														
<input type="checkbox"/>	Тип	ID	Дата ▼	Отправить	Срок	Телефон	Текст	Имя	SMS	Цена	IP	Статус	Дата	Действия
<input type="checkbox"/>		1	27.02.22 21:12:11	-	24:00	(Мегафон) Россия, Мегафон, г.Москва и Московская область	Код доступа в Интернет: 1939	WNAM	1			Запрещено незарегистрированный sender id	-	Удалить

/ . WNAM "", " ", SMPP , .

3.

, "" - , , . , - . WNAM. . grep wnam.log:

```
root@wnam-srv1:/home/wnam/logs# grep 7916177 wnam.log

19:49:35.920 DEBUG [c.n.w.web.cp.CaptivePortalController:915] - postSms: site_id=001, username=78:2B:46:4F:AA.;
phone=7916177, smscode=null, ci.key=e8a516d8-f270-4ce1-96d1-0ddfabb96fa7
19:49:35.927 DEBUG [com.netams.wnam.web.cp.SmsHandler:92] - CP SMS phase 1: mac=78:2B:46:4F:AA.; ip=10.202.180.171,
phone=7916177, smscode=6861, lang=null, ci.lang=ru
```

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root@wnam-srv1:/home/wnam/logs# grep 78:2B:46:4F:AA: wnam.log
```

19:49:16.033 DEBUG [c.n.wnam.services.WnamCmdService:1324] - Authorization request for nonexisting customer, MAC=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3

19:49:22.935 DEBUG [c.n.w.services.vendors.HuaweiService:211] - CP huawei redirect: mac=78:2B:46:4F:AA:XX, ip=10.202.180.171, ap=9c:71:3a:a7:c8:e0 [Guests], server=AC6605-00-B0408-01-00-OkWiFi, 10.202.1.3

19:49:23.114 DEBUG [com.netams.wnam.web.cp.PageGenerator:634] - processAuthRequest HUAWEI: username=78:2B:46:4F:AA:XX, ip=10.202.180.171, server=AC6605-00-B0408-01-00-OkWiFi, site_id=001, dst='https://moscow.ru' adv curr/max=1/1

19:49:23.117 DEBUG [com.netams.wnam.web.cp.PageGenerator:1131] - captive portal redirected to SMS page, username=78:2B:46:4F:AA:XX, cust=new, form='5fa3b48f162c656da9e7399d'

19:49:35.920 DEBUG [c.n.w.web.cp.CaptivePortalController:915] - postSms: site_id=001, username=78:2B:46:4F:AA:XX, phone=7916177xxxx, smscode=null, ci.key=e8a516d8-f270-4ce1-96d1-0ddfab96fa7

19:49:35.927 DEBUG [com.netams.wnam.web.cp.SmsHandler:92] - CP SMS phase 1: mac=78:2B:46:4F:AA:XX, ip=10.202.180.171, phone=7916177xxxx, smscode=6861, lang=null, ci.lang=ru

19:49:49.933 DEBUG [c.n.w.web.cp.CaptivePortalController:915] - postSms: site_id=001, username=78:2B:46:4F:AA:XX, phone=7916177xxxx, smscode=6861, ci.key=e8a516d8-f270-4ce1-96d1-0ddfab96fa7

19:49:49.938 DEBUG [c.n.w.web.cp.CaptivePortalController:1050] - postSmsPhase2 phone=7916177xxxx, code=6861, r={ ip=10.202.180.171, mac=78:2B:46:4F:AA:XX, phone=7916177xxxx, code=6861, attempts=0 }, r_ir=false, ap_m=SMS

19:49:49.942 DEBUG [c.n.w.web.cp.CaptivePortalController:1072] - CP SMS phase 2: mac=78:2B:46:4F:AA:XX, ip=10.202.180.171, phone=7916177xxxx, smscode=6861 CORRECT in 14014 ms.

19:49:49.944 DEBUG [com.netams.wnam.web.cp.PageGenerator:762] - loginAtNasCi HUAWEI mac=78:2B:46:4F:AA:XX, ip=10.202.180.171, server=AC6605-00-B0408-01-00-OkWiFi, dst='https://moscow.ru'

19:49:49.948 DEBUG [c.n.w.services.vendors.HuaweiService:113] - backToHUAWEI login, server='172.19.2.3', username=78:2B:46:4F:AA:XX, IP=10.202.180.171, password=password, dst='https://moscow.ru'

19:49:50.081 DEBUG [c.n.wnam.services.WnamCmdService:1235] - AUTH transparent next session MAC=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001, back=43200 s., counter=0, DENY

19:49:50.081 DEBUG [c.n.wnam.services.WnamCmdService:1439] - AUTH for new session ID=AC6605-00000000002340b9841a02019bf, request MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, cust_clientid=null, site_id=001

19:49:50.255 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Start new session ID=AC6605-00000000002340b9841a02019bf, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

19:54:50.255 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Interim-Update existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:05:00, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

19:59:50.247 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Interim-Update existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:09:59, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

20:04:50.254 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Interim-Update existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:14:59, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001


20:09:50.242 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Interim-Update existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:19:59, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

20:14:50.307 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Interim-Update existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:25:00, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

20:19:50.243 DEBUG [c.n.wnam.services.WnamCmdService:673] - ACCT Stop existing session ID=AC6605-00000000002340b9841a02019bf, duration=00:29:59, MAC=78:2B:46:4F:AA:XX, IP=10.202.180.171, User=78:2B:46:4F:AA:XX, NAS_IP=172.19.2.3, site_id=001

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Выбран фильтр (очистить)														
<input type="checkbox"/>	Тип	ID	Дата ▼	Отправить	Срок	Телефон	Текст	Имя	SMS	Цена	IP	Статус	Дата	Действия
<input type="checkbox"/>	 1	25.02.22 16:47:07	-	24:00	797... (Теле2) Россия, T2 Мобайл, г.Москва и Московская область	+ Код доступа в Интернет: 3182	WNAM	1	2.95 р			Просрочено абонент не в сети	26.02.22 16:46:58	Удалить

, WNAM - (SMPP), , - , , WNAM .