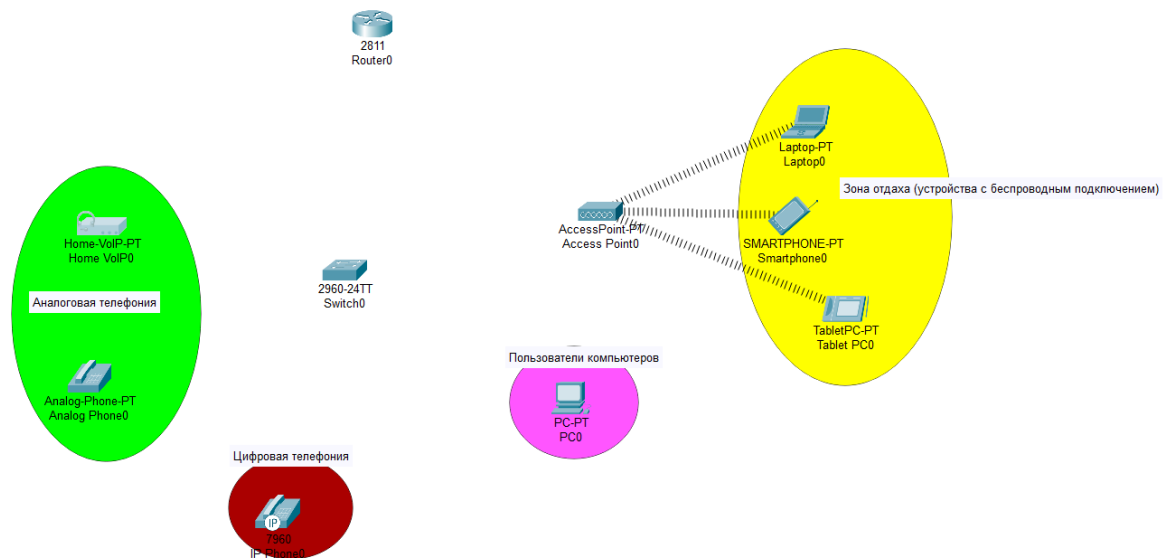
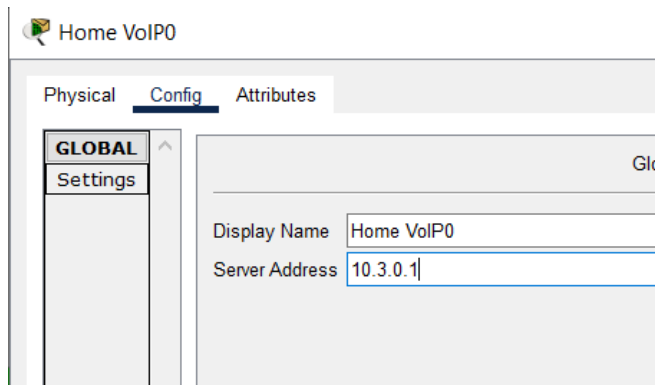


Практическая работа 29 – IP-телефония на примере разных устройств пользователя

1. Строю сеть



2. Настраиваю Home VoIP



3. Настраиваю роутер

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)# ip address 10.3.0.1 255.255.255.0
Router(config-if)# no shutdown
```

4. Настройка DHCP для телефонии

```
Router(config)# ip dhcp excluded-address 10.3.0.1
Router(config)#ip dhcp pool Telephony
Router(dhcp-config)#network 10.3.0.0 255.255.255.0
Router(dhcp-config)#default-router 10.3.0.1
Router(dhcp-config)# option 150 ip 10.3.0.1
```

5. Конфигурация телефонии

```
Router(config)# telephony-service
Router(config-telephony)# max-ephones 10
Router(config-telephony)# max-dn 10
Router(config-telephony)# ip source-address 10.3.0.1 port 2000
Router(config-telephony)# auto assign 1 to 10
```

6. Создаю номера

```
Router(config-telephony)# ephone-dn 1
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 1.1, changed state to up

Router(config-ephone-dn)# number 101
Router(config-ephone-dn)#
%IPPHONE-6-REGISTER: ephone-1 IP:10.3.0.5 Socket:2 DeviceType:Phone has registered.

Router(config-ephone-dn)# ephone-dn 2
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 2.1, changed state to up

Router(config-ephone-dn)# number 102
Router(config-ephone-dn)# ephone-dn 3
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 3.1, changed state to up

Router(config-ephone-dn)# number 103
Router(config-ephone-dn)# ephone-dn 4
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 4.1, changed state to up

Router(config-ephone-dn)# number 104
Router(config-ephone-dn)# ephone-dn 5
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 5.1, changed state to up

Router(config-ephone-dn)# number 105
Router(config-ephone-dn)# ephone-dn 6
Router(config-ephone-dn)##LINK-3-UPDOWN: Interface ephone_dsp DN 6.1, changed state to up

Router(config-ephone-dn)# number 106
```

7. Регистрация аналогового телефона

```
Router(config-ephone-dn)# ephone 1
Router(config-ephone)# exit
Router(config)# ephone 1
Router(config-ephone)# mac-address 0009.7C34.3C01
ephone slot is already registered with 000D.BDE0.9E01
Cannot change MAC address.
Router(config-ephone)# mac-address 000D.BDE0.9E01
ephone slot is already registered with 000D.BDE0.9E01
Cannot change MAC address.
Router(config-ephone)# type ata
Router(config-ephone)# button 1:1
Dn already assigned.
Router(config-ephone)# exit
```

8. Регистрация IP-телефона 7960

```
Router(config)# ephone 2
Router(config-ephone)# mac-address 000C.CF09.D862
Router(config-ephone)# type 7960
Router(config-ephone)# button 1:2
Router(config-ephone)# exit
- . . . -
```

9. Регистрация программных телефонов

```
Router(config)# ephone 3
Router(config-ephone)# mac-address 0006.2A28.7710
Router(config-ephone)# type CIPC
Router(config-ephone)# button 1:3
```

10.Результат

