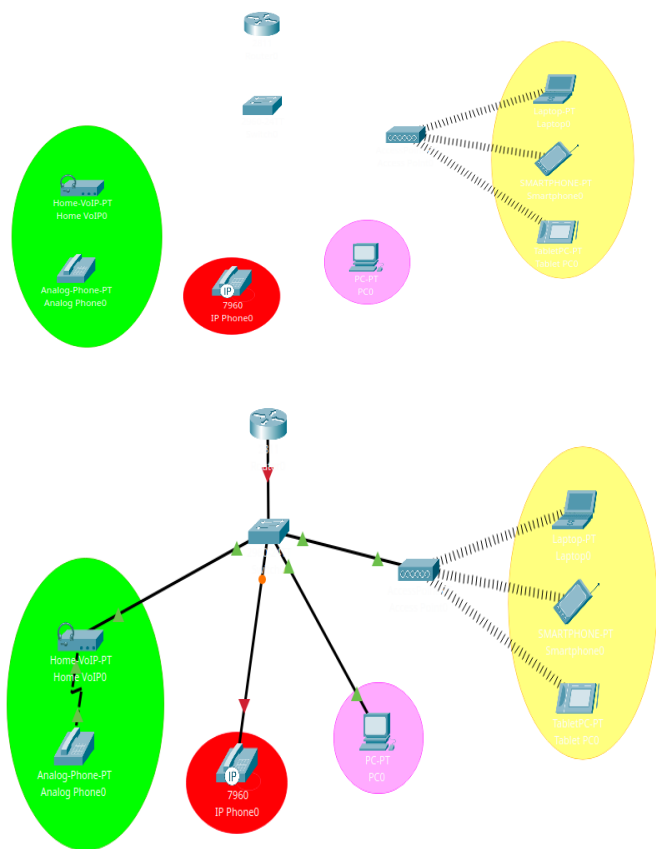


КС29 – IP-телефония на примере разных устройств пользователя

Построение сети (4 зоны)



Настройка интерфейса FastEthernet0/0:

```
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
```

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
```

Базовая конфигурация 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
Router(dhcp-config)#exit
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
```

Настройка телефонных номеров (DN):

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

%IPPHONE-6-REGISTER: ephone-1 IP:10.3.0.4 Socket:2 DeviceType:Phone has registered.

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
```

Регистрация первого телефона (Аналоговая телефония) (ATA):

```
Router(config)#ephone 1
Router(config-ephone)#mac-address 0009.7C34.3C01
ephone slot is already registered with 000B.BEE6.E901
Cannot change MAC address.
Router(config-ephone)#mac-address 000B.BEE6.E901
ephone slot is already registered with 000B.BEE6.E901
Cannot change MAC address.
Router(config-ephone)#type ata
Router(config-ephone)#button 1:1
```

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
```

Регистрация программных телефонов (CIPC):

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