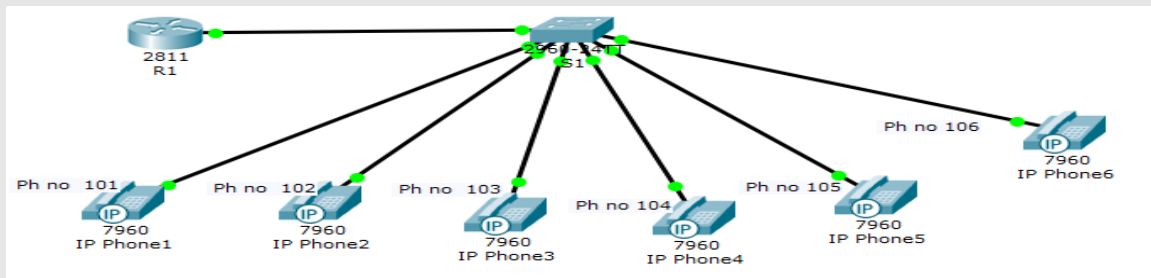


VOIP Phones Setup



Below are the configurations for the VOIP Phone Setup. The configuration only works with the Cisco 7960 IP Phones. During this project, I didn't have the proper equipment to create an express call manager server. Hopefully this a good starting point for someone who is reading this in the future.

Cisco Router 2811

Building configuration... Current configuration : 1888 bytes ! version 12.4 no service timestamps log datetime msec no service timestamps debug datetime msec no service password-encryption ! hostname R1 ! ip dhcp excluded-address 192.168.10.1 192.168.10.9 ip dhcp excluded-address 192.168.20.1 192.168.20.9 ! ip dhcp pool Data network 192.168.10.0 255.255.255.0 default-router 192.168.10.1 ip dhcp pool Voice network 192.168.20.0 255.255.255.0 default-router 192.168.20.1 option 150 ip 192.168.20.1	<pre> ip cef no ipv6 cef ! spanning-tree mode pvst interface FastEthernet0/0 no ip address duplex auto speed auto ! interface FastEthernet0/0.10 encapsulation dot1Q 10 ip address 192.168.10.1 255.255.255.0 ! interface FastEthernet0/0.20 encapsulation dot1Q 20 ip address 192.168.20.1 255.255.255.0 ! interface FastEthernet0/0.99 encapsulation dot1Q 99 native ip address 192.168.99.1 255.255.255.0 ! </pre>
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<pre> interface FastEthernet0/1 no ip address duplex auto speed auto shutdown ! interface Vlan1 no ip address shutdown ! ip classless ! ip flow-export version 9 ! telephony-service max-ephones 6 max-dn 6 ip source-address 192.168.20.1 port 2000 ! ephone-dn 1 number 101 ! ephone-dn 2 number 102 ! ephone-dn 3 number 103 ! ephone-dn 4 number 104 ! ephone-dn 5 number 105 ! ephone-dn 6 number 106 ! ephone 1 device-security-mode none mac-address 0000.AAAA.BBBB type 7960 button 1:1 ! </pre>	<pre> ephone 2 device-security-mode none mac-address 0000.AAAA.CCCC type 7960 button 1:2 ! ephone 3 device-security-mode none mac-address 0000.AAAA.DDDD type 7960 button 1:3 ! ephone 4 device-security-mode none mac-address 0000.AAAA.EEEE type 7960 button 1:4 ! ephone 5 device-security-mode none mac-address 0000.AAAA.FFFF type 7960 button 1:5 ! ephone 6 device-security-mode none mac-address 0000.AAAA.GGGG type 7960 ! line con 0 ! line aux 0 ! line vty 0 4 login ! ! ! ! end </pre>
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Cisco Switch C2960 VoIP

<p>Building configuration...</p> <p>Current configuration : 2988 bytes</p> <pre> ! version 12.2 no service timestamps log datetime msec no service timestamps debug datetime msec no service password-encryption ! hostname S1 ! ! spanning-tree mode pvst ! interface FastEthernet0/1 switchport trunk native vlan 99 switchport mode trunk ! interface FastEthernet0/2 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/3 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/4 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/5 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/6 switchport access vlan 10 switchport mode access switchport voice vlan 20 </pre>	<pre> interface FastEthernet0/7 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/8 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/9 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/10 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/11 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/12 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/13 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/14 switchport access vlan 10 switchport mode access switchport voice vlan 20 ! interface FastEthernet0/15 switchport access vlan 10 switchport mode access switchport voice vlan 20 </pre>
--	---

```
!  
interface FastEthernet0/16  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/17  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/18  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/19  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/20  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/21  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/22  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20
```

```
!  
interface FastEthernet0/23  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface FastEthernet0/24  
  switchport access vlan 10  
  switchport mode access  
  switchport voice vlan 20  
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
!  
interface Vlan1  
  no ip address  
  shutdown  
!  
interface Vlan99  
  mac-address 0006.2a26.2801  
  ip address 192.168.99.5 255.255.255.0  
!  
ip default-gateway 192.168.99.1  
!  
!  
line con 0  
!  
line vty 0 4  
  login  
line vty 5 15  
  login  
!  
end
```