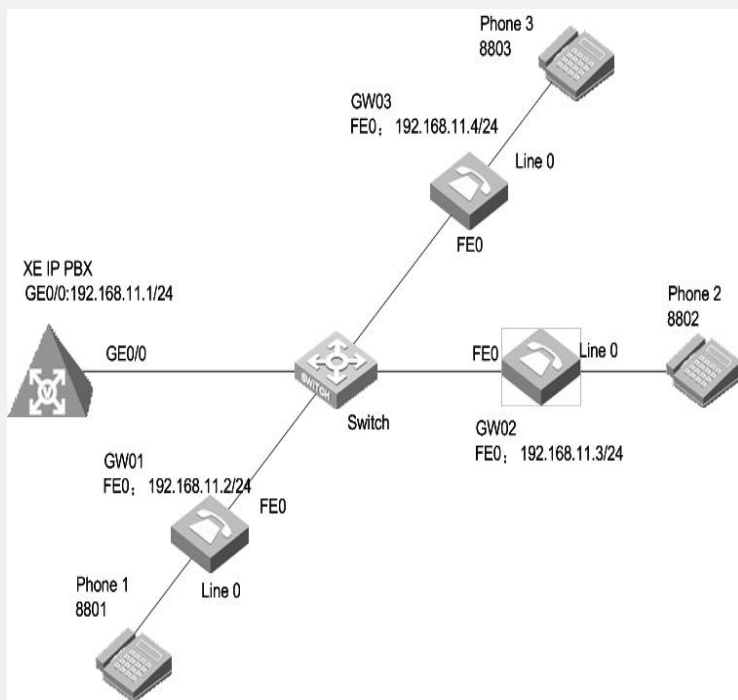


XE200/2000基于地理位置的号码变换功能的配置

一、组网需求:

一台XE 200语音服务器采用集中式组网, 进行H.323呼叫, 共有4个网关设备, 其中GW01和GW02的地区码分别为010和020, 国家码为86, GW03和GW04的地区码分别为030和040, 国家码为49.

二、组网图:



三、配置步骤:

1. 配置H.323网守

```
# 配置以太网接口
[XE] interface Ethernet 0/0
[XE-Ethernet0/0] ip address 192.168.80.50 255.255.255.0
[XE-Ethernet0/0] quit
# 配置网守
[XE] process-server
[XE-ps] ps-config gkserver interface Ethernet 0/0
[XE-ps] heartbeat password xe
# 配置PS的心跳密码 #
[XE-ps] ls-mode 0 local
# 指定使用本地位置服务器 #
[XE-ps] start
[XE-ps] gatekeeper
[XE-ps-gk] start
```

2. 配置位置服务器

```
# 配置位置服务器
[XE] location-server
[XE-ls] ls-config interface Ethernet 0/0
[XE-ls] process-server gkserver
[XE-ls-ps-gkserver] heartbeat password xe
#配置位置服务器LS的心跳密码 #
# 启用基于地理位置的号码变换功能
[XE-ls] policy area-code-substitute enable
# 配置网关设备
[XE-ls] gateway gw01
[XE-ls-gw-gw01] device-type h323
[XE-ls-gw-gw01] dynamic-ip enable
#允许gw01的IP地址动态更新#
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[XE-ls-gw-gw01] area-code 010 86
#配置国家码为86和地区码为010#
[XE-ls-gw-gw01] quit
[XE-ls] gateway gw02
[XE-ls-gw-gw02] device-type h323
#设置语音设备gw02为H323类型#
[XE-ls-gw-gw02] dynamic-ip enable
[XE-ls-gw-gw02] area-code 020 86
#配置gw02的国家码为86，地区码为020#
[XE-ls-gw-gw02] quit
[XE-ls] gateway gw03
[XE-ls-gw-gw03] device-type h323
[XE-ls-gw-gw03] dynamic-ip enable
[XE-ls-gw-gw03] area-code 030 49
[XE-ls-gw-gw03] quit
[XE-ls] gateway gw04
[XE-ls-gw-gw04] device-type h323
[XE-ls-gw-gw04] dynamic-ip enable
[XE-ls-gw-gw04] area-code 040 49
[XE-ls-gw-gw04] quit
# 启用位置服务器
[XE-ls] start
3. 配置H.323 Gateway 1
# 配置以太网接口
[VG1] interface ethernet 0
[VG1-Ethernet0] ip address 192.168.80.10 255.255.255.0
[VG1-Ethernet0] quit
# 配置语音实体
[VG1] voice-setup
[VG1-voice] dial-program
[VG1-voice-dial] entity 1 voip
#配置IP语音实体1#
[VG1-voice-dial-entity1] match-template 0.....
# 配置任意四位号码作为语音实体1被叫号码模板 #
[VG1-voice-dial-entity1] address ras
# 配置动态路由策略，GW和GK SERVER通过交互RAS信令，由GK SERVER 动态
返回与被叫号码匹配的对端GW 地址 #
[VG1-voice-dial-entity1] quit
[VG1-voice-dial] entity 2 voip
[VG1-voice-dial-entity2] match-template 66..
[VG1-voice-dial-entity2] address ras
[VG1-voice-dial-entity2] quit
[VG1-voice-dial] entity 3 voip
[VG1-voice-dial-entity3] match-template 49.....
[VG1-voice-dial-entity3] address ras
[VG1-voice-dial-entity3] quit
[VG1-voice-dial] entity 6601 pots
[VG1-voice-dial-entity6601] match-template 6601
[VG1-voice-dial-entity6601] line 0
[VG1-voice-dial-entity6601] return
# 配置GK-Client
[VG1-voice] gk-client
[VG1-voice-gk] gw-id gw01
[VG1-voice-gk] gw-address ip 192.168.80.10
[VG1-voice-gk] gk-id gkserver gk-addr 192.168.80.50 1719
[VG1-voice-gk] ras-on
#激活GK-Client#
4. 配置H.323 Gateway 2
# 配置以太网接口
[VG2] interface ethernet 0
[VG2-Ethernet0] ip address 192.168.80.20 255.255.255.0
[VG2-Ethernet0] quit
# 配置语音实体
[VG2] voice-setup

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[VG2-voice] dial-program
[VG2-voice-dial] entity 1 voip
[VG2-voice-dial-entity1] match-template 0.....
[VG2-voice-dial-entity1] address ras
[VG2-voice-dial-entity1] quit
[VG2-voice-dial] entity 2 voip
[VG2-voice-dial-entity2] match-template 77..
[VG2-voice-dial-entity2] address ras
[VG2-voice-dial-entity2] quit
[VG2-voice-dial] entity 3 voip
[VG2-voice-dial-entity3] match-template 49.....
[VG2-voice-dial-entity3] address ras
[VG2-voice-dial-entity3] quit
[VG2-voice-dial] entity 7701 pots
[VG2-voice-dial-entity7701] match-template 7701
[VG2-voice-dial-entity7701] line 0
[VG2-voice-dial-entity7701] return
# 配置GK-Client
[VG2-voice] gk-client
[VG2-voice-gk] gw-id gw02
[VG2-voice-gk] gw-address ip 192.168.80.20
[VG2-voice-gk] gk-id gkserver gk-addr 192.168.80.50 1719
[VG2-voice-gk] ras-on
5. 配置H.323 Gateway 3
# 配置以太网接口
[VG3] interface ethernet 0
[VG3-Ethernet0] ip address 192.168.80.30 255.255.255.0
[VG3-Ethernet0] quit
# 配置语音实体
[VG3] voice-setup
[VG3-voice] dial-program
[VG3-voice-dial] entity 1 voip
[VG3-voice-dial-entity1] match-template 0.....
[VG3-voice-dial-entity1] address ras
[VG3-voice-dial-entity1] quit
[VG3-voice-dial] entity 2 voip
[VG3-voice-dial-entity2] match-template 88..
[VG3-voice-dial-entity2] address ras
[VG3-voice-dial-entity2] quit
[VG3-voice-dial] entity 3 voip
[VG3-voice-dial-entity3] match-template 86.....
[VG3-voice-dial-entity3] address ras
[VG3-voice-dial-entity3] quit
[VG3-voice-dial] entity 8801 pots
[VG3-voice-dial-entity8801] match-template 8801
[VG3-voice-dial-entity8801] line 0
[VG3-voice-dial-entity8801] return
# 配置GK-Client
[VG3-voice] gk-client
[VG3-voice-gk] gw-id gw03
[VG3-voice-gk] gw-address ip 192.168.80.30
[VG3-voice-gk] gk-id gkserver gk-addr 192.168.80.50 1719
[VG3-voice-gk] ras-on
6. 配置H.323 Gateway 4
# 配置以太网接口
[VG4] interface ethernet 0
[VG4-Ethernet0] ip address 192.168.80.40 255.255.255.0
[VG4-Ethernet0] quit
#配置语音实体
[VG4] voice-setup
[VG4-voice] dial-program
[VG4-voice-dial] entity 1 voip
[VG4-voice-dial-entity1] match-template 0.....
[VG4-voice-dial-entity1] address ras
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```
[VG4-voice-dial-entity1] quit
[VG4-voice-dial] entity 2 voip
[VG4-voice-dial-entity2] match-template 99..
[VG4-voice-dial-entity2] address ras
[VG4-voice-dial-entity2] quit
[VG4-voice-dial] entity 3 voip
[VG4-voice-dial-entity3] match-template 86.....
[VG4-voice-dial-entity3] address ras
[VG4-voice-dial-entity3] quit
[VG4-voice-dial] entity 9901 pots
[VG4-voice-dial-entity9901] match-template 9901
[VG4-voice-dial-entity9901] line 0
[VG4-voice-dial-entity9901] return
# 配置GK-Client
[VG4-voice] gk-client
[VG4-voice-gk] gw-id gw04
[VG4-voice-gk] gw-address ip 192.168.80.40
[VG4-voice-gk] gk-id gkserver gk-addr 192.168.80.50 1719
[VG4-voice-gk] ras-on
```

7. 配置关键点

- 1) 启用基于地理位置的号码变换功能
[XE-ls] policy area-code-substitute enable
- 2) 配置国家码和地区码
[XE-ls-gw-gw01] area-code 010 86
- 3) 配置LS和PS的心跳密码要保持一致
[XE-ls-ps-gkserver] heartbeat password xe
[XE-ps] heartbeat password xe