XE200基于国家码和地区码的号码变换业务的配置

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一、组网需求

一台XE200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。
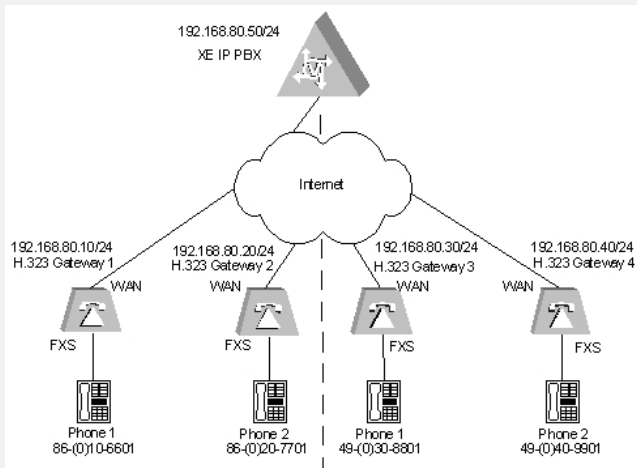
二、组网图

图1-1 基于地理位置的号码变换（使用国家码和地区码）

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

[XE-ps] ls-mode local

[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] ip-address 127.0.0.1

[XE-ls-ps-gkserver] heartbeat password xe

\# 启用基于地理位置的号码变换功能

[XE-ls] policy area-code-substitute enable　　　　//使能区域码变换//功能（缺省已启用）

\# 配置网关设备

[XE-ls] gate-way gw01

[XE-ls-gw-gw01] device-type h323

[XE-ls-gw-gw01] dynamic-ip enable

[XE-ls-gw-gw01] area-code 010 86　　　　//配置网关所属的//area-code

[XE-ls-gw-gw01] quit

[XE-ls] gate-way gw02

[XE-ls-gw-gw02] device-type h323

[XE-ls-gw-gw02] dynamic-ip enable

[XE-ls-gw-gw02] area-code 020 86　　　　//配置网关所属的//area-code

```
[XE-ls] gate-way gw03
[XE-ls-gw-gw03] device-type h323
[XE-ls-gw-gw03] dynamic-ip enable
[XE-ls-gw-gw03] area-code 030 49              //配置网关所属的//area-code
[XE-ls-gw-gw03] quit
[XE-ls] gate-way gw04
[XE-ls-gw-gw04] device-type h323
[XE-ls-gw-gw04] dynamic-ip enable
[XE-ls-gw-gw04] area-code 040 49              //配置网关所属的//area-code
[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
[VG1-voice-dial-entity1] match-template 0......
[VG1-voice-dial-entity1] address ras
[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
```

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
[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
[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

四、配置关键点

和基于地区码的号码变换类似，可以把地区码和短号联系在一起来看。属于同一个国家码的语音网关下的电话之间互相拨打的时候，被叫号码为地区码+短号或者国家码+地区码+短号；属于不同国家码的语音网关下的电话之间互相拨打的时候，被叫号码为国家码+地区码+短号。如Gateway 1拨打Gateway 2下挂的电话，可以拨打0207701，也可以拨打86(0)207701；而Gateway 1拨打Gateway 3下挂的电话，只能拨打49(0)308801。