

XE200基于变换规则的号码变换功能的配置

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。以某个公司内部VoIP网络为例，由于工作需要，员工可能会调换工位，使员工使用的电话号码发生变化，为了不影响某些重要领导的工作，可以将拨打某位领导原号码的呼叫通过号码变换转接到新的号码上，从而避免重要电话被漏接的情况发生。如某位领导原有电话号码为6601，工位调整后，新的电话号码为9901，则通过号码变换将拨打6601的呼叫变换为拨打9901。

二、组网图

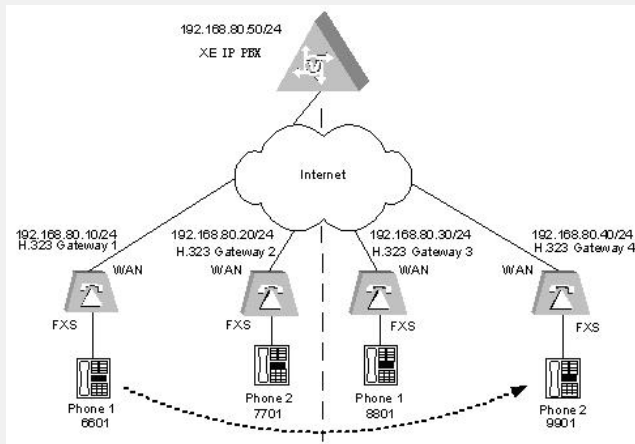


图1-1 基于变换规则的号码变换

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
[XE-ls-ps-gkserver] quit
[XE-ls] policy num-substitute enable
//启动号码规则变换功能（缺省//已启用）
[XE-ls] number-substitute 1
//配置号码变换规则的序//号
[XE-ls-sst-1] rule 0 callee 6601 9901 before
//配置号码变换规则
[XE-ls] substitute 1
//XE的全局模式下应用//号码变换规则
# 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] quit
[XE-ls] gate-way gw02
[XE-ls-gw-gw02] device-type h323
[XE-ls-gw-gw02] dynamic-ip enable
[XE-ls-gw-gw02] quit
[XE-ls] gate-way gw03
[XE-ls-gw-gw03] device-type h323
[XE-ls-gw-gw03] dynamic-ip enable
[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] 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 ....
[VG1-voice-dial-entity1] address ras
[VG1-voice-dial-entity1] 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 ....
[VG2-voice-dial-entity1] address ras
[VG2-voice-dial-entity1] 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
```

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 ....
[VG3-voice-dial-entity1] address ras
[VG3-voice-dial-entity1] 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 ....
[VG4-voice-dial-entity1] address ras
[VG4-voice-dial-entity1] 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

命令和语音网关的号码变换规则有些类似，如：rule 0 callee 6601 9901 before
其中“0”代表规则序号，callee代表被叫，before代表号码路由之前进行号码变换。所以上述命令的含义是：在号码路由之前，将被叫号码为“6601”的呼叫的被叫号码改为“9901”，因为是应用在全局模式下（location-server视图下），所以针对所有进入XE的呼叫有效。可以参考VG语音网关的典型配置手册中关于号码变换的典型配置。