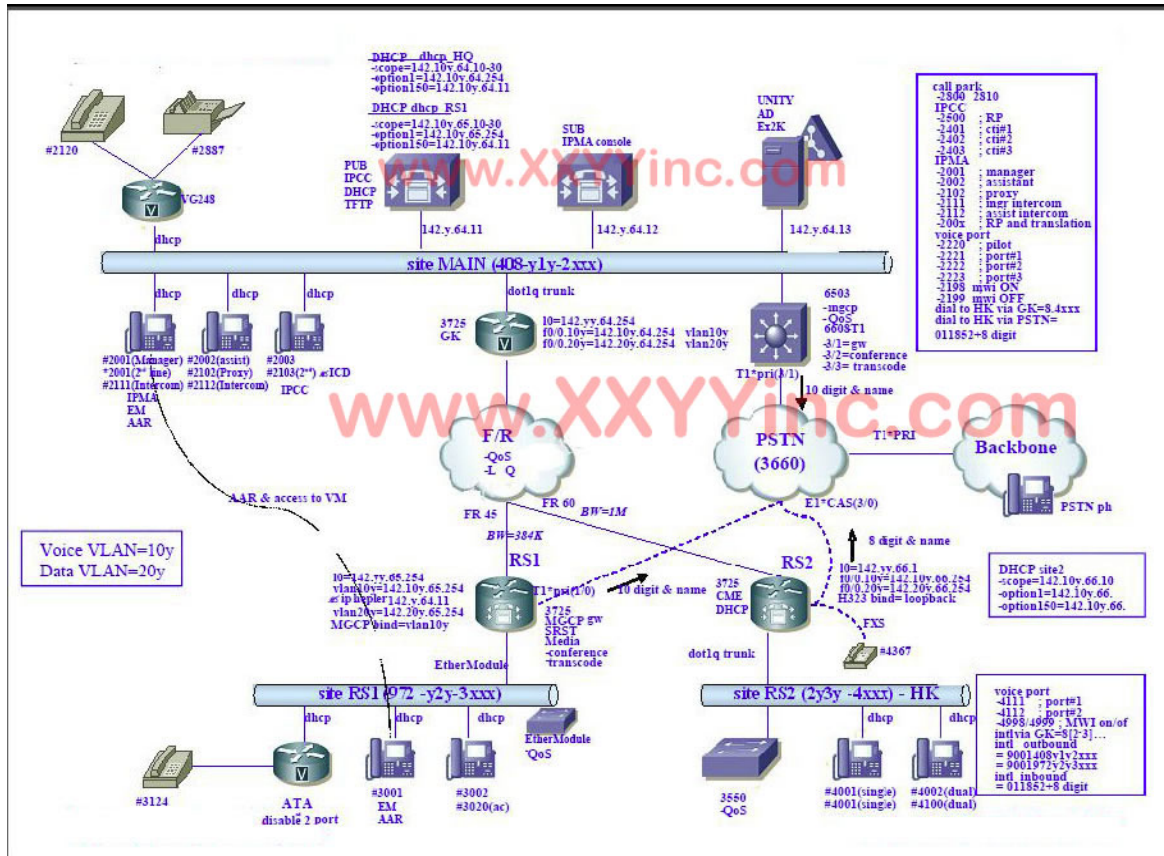


# **CCIE VOICE LAB Demo**

**Ver:YY#1**

**Update September, 2011**



## Diagrams

- no call park in CCM
- add one FXS port 1/0/1 on the HQ router. NM-2V
- CUE in the CME router

## VLAN

- Voice=10y    1yy
- Data=20y    2yy

## Task2 -

### IP Phone on CME

- Configure all IP phones with associated 4-digit phone numbers.
- Configure phones to send 8 digit external number and Caller Name.
- Configure appropriate display name. Synchronize CME clocks with ntp server for china time zone.
- Configure IP phones as display in the picture. include softkey

### Phone setting

- phone1-line1, make call-forward to VM when busy or noan. no call-wait allowed
- phone2-line1, allow two calls to be answered(allow call-waiting)
- phone2-line1, can only do a CFwdAll to local numbers
- max conference 2 and do not drop conference when initiator drops conference
- 2 calls on-hold. 1 active
- configure paging group. 4300

*--> not clear the phone requirement such as single or dual. specially phone1-lin2 and phone2-line2.*

**CME, ephone hunt**

- pilot number 4100 and the member as 4001 and 4002. the last direct to 4001's VM
- configure to sequential way

**CME, call park**

- call park number 4200

**CME, COR**

- max-2 simultaneous for international calls from phone2
- allow only phone2 to transfer local and Id. Not intl
- only allow 1 intl or Id call from phone1-4001 at any given time

### **Task3 -**

#### **Advanced Gatekeeper**

- You can not use default-tech prefix or alias**
- CCM must use 1# Tech-prefix. You can not use the wildmask(removed)**
- the call from CME to CCM, use the SUB and PUB as failover**
- the call should not be returned to origin (removed)**
- The call routing referring to the following high availability section.**

## **Task4**

### **-HQ**

**-Phone1, Phone2: international (2001,2002)**

**-Phone3:long distance (2003,2103)**

**-Phone4:restricted (2120)**

**-Fax: longdistance (2887)**

**-Phone5:restricted (2xxx) – HQ 3725 G/K fxs 1/0/1**

**\*\*configure MGCP on the HQ router(gk) and assign DN2xxx for the fxs port**

**-2nd dial tone for PSTN call (removed)**

**-Toll bypass to CME, 8.4xxx change to 4xxx. only use 4 digit to toll bypass to CME**

**\*\* need to double check**

## Task7

### MoH

-Setup the publisher CallManager for MOH. Stream G.711 MOH to Main and stream G.729 MOH to RS1. Make sure that Site 1 only receives multicast MOH when they put someone on hold.

**-RS1 use SUB for multicast MoH. HQ use SUB for unicast MoH and the PUB as backup**

### CCM, conference

-Terminate the conference session when the conference initiator hang-up(on-hook)

**-->CCM > service > service parameter(CCM) > Drop Ad Hoc conference=when conference controller leaves**

### CME, transcoder

-Allow call-forward the call from CCM IP phone to CME phone's voice mailbox when the CME phone is busy or not answer

**-->the DSP resource is NM-HDV so same configuration format for RS1 and RS2. need to double check the DSP in CME**

## Task9

-VM Pilot: 2220 -->2100

-VM Ports: 2221-2223 -->2101-2103

## CME integration

-VM DN 4111

-Create voice mailbox for DN4001 and DN4002 with password "12345"

## Customized message

-Configure VM so every site (Main site 2000 and RS1 3000) has own opening greeting.

-schedule for after hour. Record greeting to be played "Sorry we are closed"

## Call forward

-Allow call-forward the call from CCM IP phone to CME phone's voice mailbox when the CME phone

is busy or not answer

\*\* the DSP resource is NM-HDV so same configuration format for RS1 and RS2

## **Task10**

### **Task 10.2 Script**

**2002 when receive a call as ANI 4082345yy**