

IOS DialPlan

« CUCME SIP Phones Registration (VOICE REGISTER GLOBAL) (</workbook/view/ccie-collaboration/task/cucme-sip-phones-registration-voice-register-global-MzA2MQ%3D%3D>) | Call Forward Unregistered (CFUR) (</workbook/view/ccie-collaboration/task/call-forward-unregistered-cfur-MzA2Mw%3D%3D>) »

Last updated: November 10, 2017

Site C PSTN Service Provider routing policies.

- Site C PSTN Service Provider requires proper setting of called party number string and called party number types (subscriber or international) for different types of calls (local or international)
- Called Party number types (subscriber or international) must be set in ISDN set up messages
- For example, if Site C IP phones dials an US international number, 90014085032000, Site C's PSTN would process the call only if "14085032000" was sent as the called number accompanied by called party number type of international
- Unknown called party number types is only accepted for emergency 999 calls

Tasks

- After you understand the Site C PSTN routing rules above, configure the following dial plan requirements for Site C.
 - Make sure inbound calls from PSTN to Site C phones works.
 - When calling from Site C Phones make sure the call takes the first channel on ISDN and send display ie and redirecting number too.
 - All Site C IP phones should be able to place emergency PSTN calls by dialing the 999. These calls should go out of local SIP gateway R3. Send calling name display and 8-digit calling party number (70044XXX) to PSTN. Calling party number type for these calls should be set to unknown. All Site C IP phones should be able to place local PSTN calls by dialing the access code 9 followed by any digit 2 and 9 then any 7 digits number string. These local calls should go out of local SIP gateway R3. Send calling name display and 8-digit calling party number (70044XXX) to PSTN. Calling party number type for these calls should be set to subscriber.
 - All Site C IP phones should be able to place international calls by dialing the access code 9, followed by 00, and then followed by country code and variable length digit patterns. For example, Site C users should dial 9004450075000 to reach the UK PSTN number. Some users dial # to signal end of dial and to avoid having to wait for the inter digit time out, while others do not. Send all international calls to R3. For international calls, send calling party number with Site C's country code with(+85270044XXX) and calling party number type as International, calling name should also be sent.

Configuration: [Click to collapse](#)

Site C - R3

```
voice translation-rule 1
  rule 1 /\.*\(4...\$\) / /\1/
!
voice translation-profile INCOMING
  translate called 1
!
dial-peer voice 1 pots
  translation-profile incoming INCOMING
  incoming called-number .T
  direct-inward-dial
!
interface Serial0/1/0:15
  isdn bchan-number-order ascending
  isdn outgoing display-ie
  isdn outgoing ie redirecting-number
!
voice translation-rule 999
  rule 1 /\(^4...\$\) / /7004\1/ type any unknown plan any isdn
!
voice translation-rule 1000
  rule 1 // // type any unknown plan any isdn
!
voice translation-profile EMER
  translate calling 999
  translate called 1000
!
dial-peer voice 999 pots
  translation-profile outgoing EMER
  destination-pattern ^999$
  port 0/1/0:15
  forward-digits 3
!
voice translation-rule 2404
  rule 1 // // type any subscriber plan any isdn
voice translation-rule 2405
  rule 1 /\(^4...\$\) / /7004\1/ type any subscriber plan any isdn
!
voice translation-profile LOCAL
  translate calling 2405
  translate called 2404
!
dial-peer voice 2404 pots
  translation-profile outgoing LOCAL
  destination-pattern 9[1-9].....
  port 0/1/0:15
  forward-digits 8
!
voice translation-rule 900
  rule 1 // // type any international plan any isdn
!
voice translation-rule 901
  rule 1 /\(^4...\$\) / /+8527004\1/ type any international plan any isdn
!
```

```
voice translation-profile INT
  translate calling 901
  translate called 900
  !
dial-peer voice 900 pots
  translation-profile outgoing INT
  destination-pattern 900T
  port 0/1/0:15
```

Verification

R3

```
debug isdn q931
```

From SC Phone 1 call
PSTN Emergency Dial = 999
Subscriber Dial = 970054000
International Dial = 90014085034000

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