

5. auto-upgrade

Web Server auto-upgrade (image, config) .

- command

```
router(config)# auto-upgrade ?
```

action : Auto-Upgrade (URL display)

authentication : Web server(auto upgrade server) Login Name / Password

auto-Reboot : image upgrade rebooting

interval : ,

proxy : proxy server IP Address

url : Web server (auto upgrade server) url

verbose : upgrade display mode

- default

Disable

- file (APOS-auto-upgrade.doc)

6. E1 isdn parameter 가 (E1 PRI only)

n303(setup) .

- command

```
router(config-controller-e1-1/0)# isdn n303
```

7. R2 DTMF 가 (E1 R2 only)

R2 DTMF .

- command

```
router(config-controller-e1-1/0)# signaling-type dtmf
```

8. out-barred-channel command 가 (E1 PRI/R2 only)

- : E1 channel time slot out-barred-channel

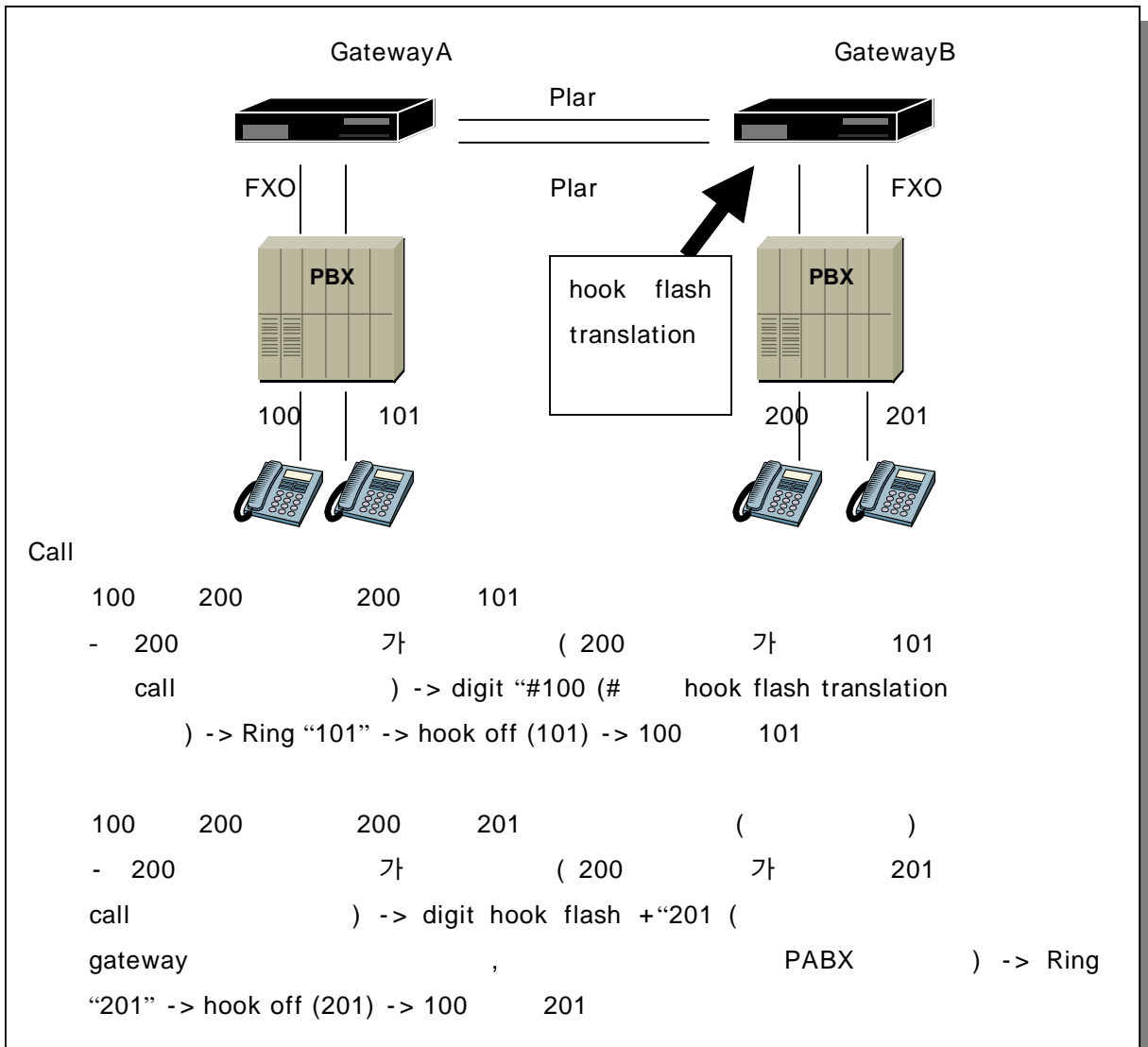
channel out-bound .

- command

```
router(config-controller-e1-1/0)# out-barred-channel timeslot xxxx
```

9. Translation hook flash

- : remote gateway PABX hook flash local
hook f flash가 (local hook flash local PABX
) (#,*) gateway hook
flash remote gateway remote 가



command

```
router (config)# dial-peer translate-digit <0-9|#|*> <0-9#!>
```

```
% ! hook flash
```

10. DTMF relay 가

- dtmf-relay rtp
DTMF RTP voice port gateway가 dtmf
. (dtmf reltime inband dtmf tone
) , .
- dtmf-relay h245-signal
DTMF H245 duration
inband .
user가 digit h245-alphanumeric
가 dtmf h245-signal
user가 tone remote .
- No dtmf-relay
- h245-alphanumeric
- command
router (config-dialpeer-voip-1000)#
dtmf-relay < rtp | h245-alphanumeric | h245-signal >

11. 가.

가 ring (cadence: on time/off time duration)
gateway 가
relay Ring Relay Plar 가
가 FXO FXS (Ring
Start)

- Ring cadence (FXS)
Gateway FXS port ring duration(on time/off time)
. (default : no ring cadence)
- ring detect-timeout(FXO)
Ring signal Detect Ring signal detect
Ring detect .

. (FXO PLAR가 Ring detect
 Ring number (Ring detect hook off 가)가 가
 . FXO PLAR가 Ring number parameter .

- command

FXO port

router (config-voice-ports-1/0)# ring detect-timeout <20-100> 1=100ms

router (config-voice-ports-1/0)# ring numer <0-255>

FXS port

router (config-voice-ports-0/0)# ring cadence <5 – 50>

12. FXS/FXO caller-id

bellcore type 1 (KT/)

FXS (caller-id send), FXO(caller-id detect)

- command

router (config-voice-ports-1/0)# caller-id enable

- default : disabled

13. timeout parameter toht(on hook delay timeout) 가

(default= 300msec) hook on ()

14. packet loss Voice Quality가 Voice redundancy 가.

- command

router (config-dialpeer-voip-1000)# redundant-rtp

default = disabled

:

15. max-frame parameter g711 가

- command

router (config-vservice-voip)# max-frame g711

default = 2

16. E1 channel order parameter random 가

- command

router(config-controller-e1-1/0)#

chan-number-order <ascending|descending|**random**>

default = descending

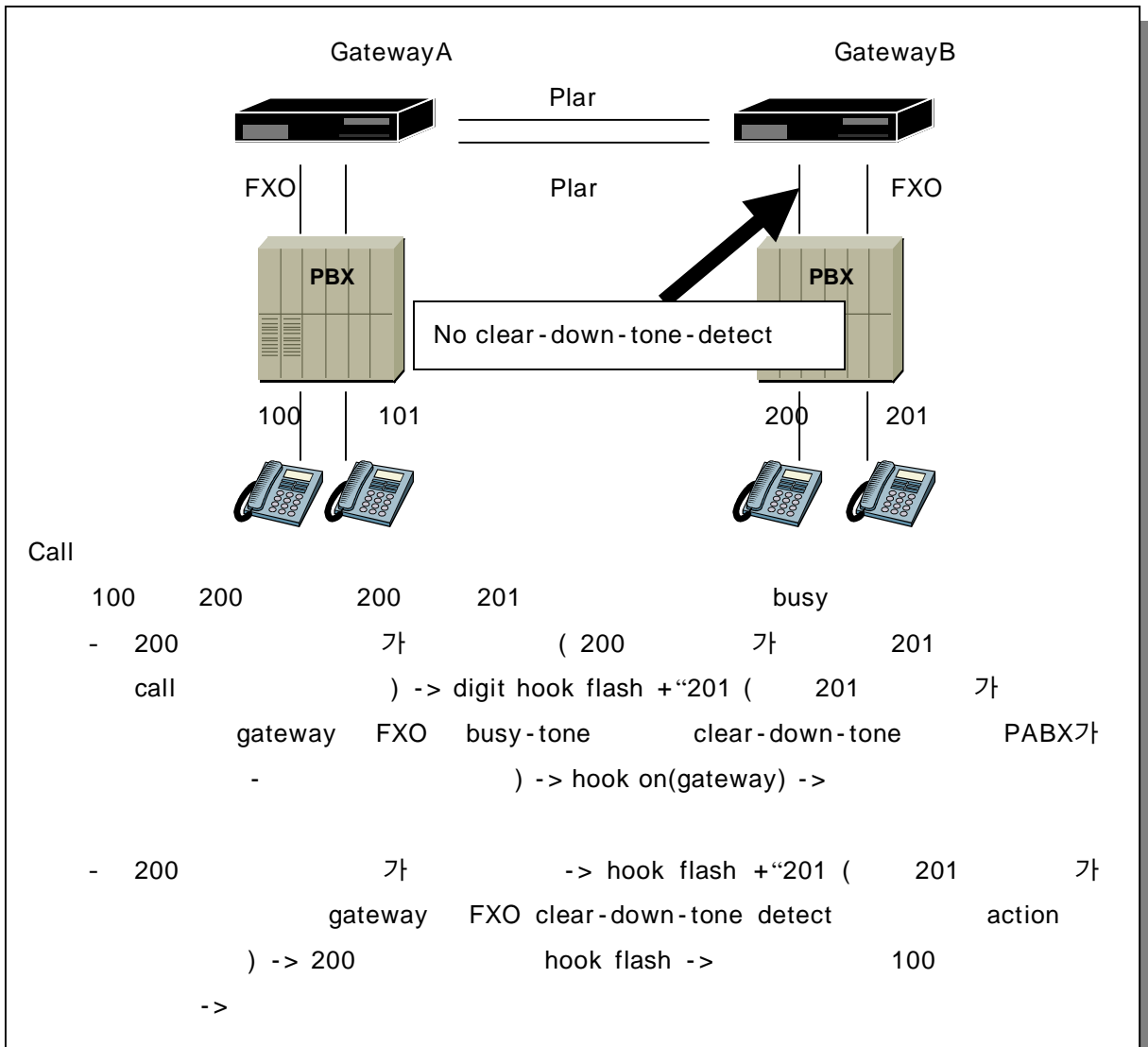
17. / number 가

- command

router # debug voip number <0-9|#|*>

18. FXO clear-down-tone-detect disable

-



! : PABX FXO port clear -down-tone-detect
disable port

- command

FXO port 가 (default enabled)

router (config-voice-ports-1/0)# no clear-down-tone-detect

19. H245 option command 가

connect H245 parameter 가.

- command

router(config-vservice-voip)# h323 call channel latest

- default

h323 call channel early

20. fax(peer fax protocol 가)

voice-service-voip fax dial-peer voip peer

- command

router(config-dialpeer-voip-1000)# fax ?

21. signaling-port (default TCP 1720) 가

- command

#(gateway > signaling-port xxxx)

rebooting .

22. voip peer call forwarding busy max hop 가 (loop condition)

- command

#dial-peer voice 1000 voip > max-forward-hop xx (default 4)

23. inter-digit timeout (tidt) parameter 가.

- command

router(config-vservice-voip)# timeout tidt <1-600> <2-32> <1-600>

- parameter

parameter <1-600>:

2 parameter <2-32>: 3 parameter

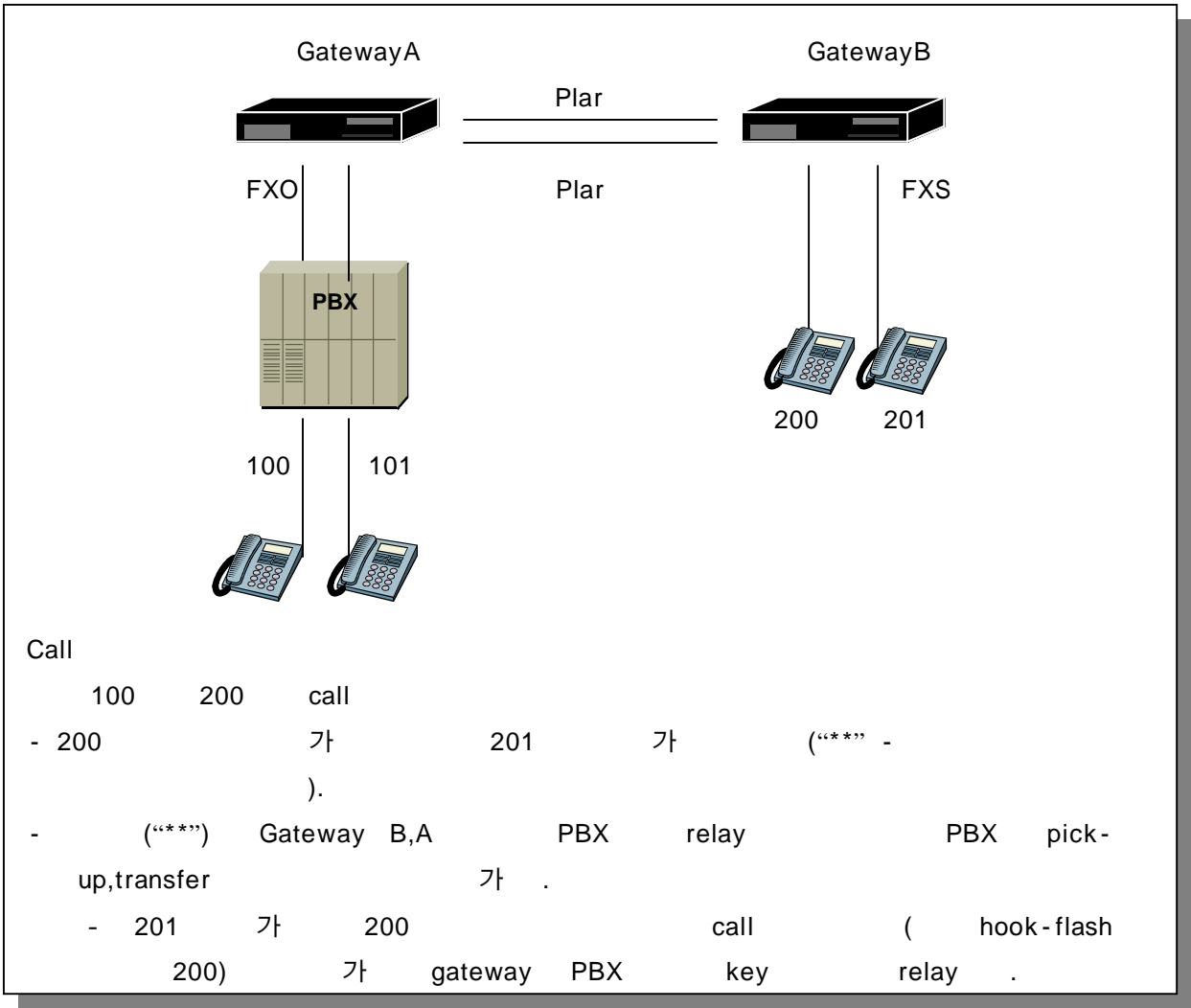
timeout digit 가

3 parameter <1-600>: 2 parameter tidt

/

1. emulation

remote side 가 g/w
 200,201 PABX direct
 PLAR
 remote side 200,201 PABX call-pickup call
 transfer gateway가
 relay
 : FXO PLAR가 , gateway가 hook off(FXO) call
 remote side(VoIP) call . remote branch ring 가
 call pick-up 가
 : FXO PLAR가 , gateway hook off(FXO) call
 , call pick-up 가 .



progress message .

- command

router(config-vservice-voip)# h323 call response default <cr>

9. T38 Fax fax rtp port .

voice codec open rtp port +2 port

10. VoIP inbound call answer address peer ()

VOIP inbound call Dial-peer 가 call IP

address -> answer-address -> calling-ID answer-address-> calling-ID -> IP
address , longest match rule .

% version 5.80 upgrade

- Example

dial-peer voice 1000 voip

dest 20T

sess tar ras

dial-peer voice 1001 voip

dest 200

sess tar ras

dial-peer voice 1002voip

sess tar 10.1.1.1

dial-peer voice 1003voip

answer-address 20T

dial-peer voice 1004voip

answer-address 200

inbound call calling-ID가 200 IP address가 10.1.1.1

V5.80 dial-peer 1004 -> 1003 -> 1001 -> 1000 -> 1002 .

