

Category	S/W Release Version	Date
MGCP	7.00	15. July. 2003

## MGCP protocol is added

From APOS version 7.00, all models of AddPac gateway support MGCP protocol. The MGCP protocol is based on IETF RFC2705bis-02 and can be running concurrently with H.323 and SIP protocol.

When a dial peer of a voice port is assigned to MGCP by below command, inbound call from the voice port is handled by MGCP protocol with call agent. In case of inbound call from VoIP to a certain voice port, the voice port can handle any kind of protocol among H.323, SIP and MGCP.

AddPac MGCP supports redundant (i.e., secondary) call agent for providing seamless service whenever the primary call agent is in service or not.

Also, AddPac MGCP supports T.38 fax relay and DTMF relay by RFC2833.

### - Related Commands

```

AP2520(config)# dial-p voice 0 pots
AP2520(config-dialpeer-pots-0)# application ?
mgcpapp    set MGCP Application
AP2520(config-dialpeer-pots-0)# application mgcpapp
AP2520(config-dialpeer-pots-0)# port 0/0    ←port 0/0 is assigned to MGCP
AP2520(config-dialpeer-pots-0)# exit
AP2520(config)# mgcp
AP2520(config-mgcp)# ?
no          set to default configuration
register    Enable MGCP
call-agent  Specify address of call-agent
default-package  Select the Default Package Capability
dtmf-relay  Configure mgcp dtmf-realy
restart-delay  Specify the Restart Delay timer value
timeout     Set timeout value
end         Go to Top menu
exit        Exit from the EXEC
AP2520(config-mgcp)# call-agent ?

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```
alias      set Hostname or IP address of the call-agent
AP2520(config-mgcp)# call-agent ca1.addpac.com ?
<0-65536>  port number (default 2427)
<cr>
AP2520(config-mgcp)# call-agent ca1.addpac.com
AP2520(config-mgcp)# call-agent ca2.addpac.com ?
<0-65536>  port number (default 2427)
<cr>
AP2520(config-mgcp)# call-agent ca2.addpac.com 2427 ?
<0-254>    priority (default 128)
<cr>
AP2520(config-mgcp)# call-agent ca2.addpac.com 2427 130
    ←set secondary call agent

AP2520(config-mgcp)# default-package ?
as-package      Select the Announcement Server Package
dtmf-package    Select the DTMF Package
gm-package      Select the Generic Media Package
hs-package      Select the Handset Package
line-package    Select the Line Package
trunk-package   Select the Trunk Package
AP2520(config-mgcp)# default-package line
AP2520(config-mgcp)# dtmf-relay ?
rtp-2833        DTMF relay by RTP payload defined by RFC 2833
                ←set DTMF relay to RFC2833

AP2520(config-mgcp)# dtmf-relay rtp
AP2520(config-mgcp)# restart ?
<0 - 500>      Select the Restart Delay timer value (sec)
AP2520(config-mgcp)# restart 60
AP2520(config-mgcp)# timeout ?
tretry  set MGCP retry timeout value (sec)
thist   set MGCP hist timeout value (sec)
tmax    set MGCP max timeout value (sec)
AP2520(config-mgcp)# timeout tretry ?
<1 - 30>      Timeout value (sec)
AP2520(config-mgcp)# timeout tretry 3
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AP2520(config-mgcp)# timeout thist ?
<4 - 3600>          Timeout value (sec)
AP2520(config-mgcp)# timeout thist 8
AP2520(config-mgcp)# timeout tmax ?
<4 - 3600>          Timeout value (sec)
AP2520(config-mgcp)# timeout tmax 8

```

```

AP2520(config)# show mgcp

```

Call Agent Registration Information

```

Call-agent registration status :
Call-agent list :
    ca1.addpac.com      2427  priority(128)
    ca2.addpac.com      2427  priority(130)

```

MGCP Timer values

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tretry (mgcp retry timer) = 3 sec.
thist (mgcp hist timer) = 30 sec.
tmax (mgcp max timer) = 8 sec.

```

MGCP Information

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DTMF Relay = rtp-2833
restart delay = 60 sec.
default-package = line-package
supported-packages :
    dtmf-package
    gm-package
    hs-package
    line-package
    trunk-package
endpoint list :

```

```

-----
      ENDPOINT-NAME          ADMIN
-----
aaln/1/0@AP2520           Idle
aaln/1/1@AP2520           Idle

```

```

aaln/1/2@AP2520      Idle
aaln/1/3@AP2520      Idle

```

```

AP2520(config)# host gw1      ←change gateway host name
gw1(config)#
gw1(config)# show mgcp

```

Call Agent Registration Information

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endpoint list :

```

ENDPOINT-NAME	ADMIN
aaln/1/0@gw1	Idle
aaln/1/1@gw1	Idle
aaln/1/2@gw1	Idle
aaln/1/3@gw1	Idle

```

gw1(config)# voice s v
gw1(config-vservice-voip)# fax ?      ←set fax option
protocol    Configure fax protocol
rate        Configure fax rate
gw1(config-vservice-voip)# fax proto ?
bypass      bypass mode
t38          T38 protocol
inband-t38  Inband-T38 protocol
gw1(config-vservice-voip)# fax proto t38
gw1(config-vservice-voip)# fax rate ?
2400        2400 bps fax rate
4800        4800 bps fax rate
7200        7200 bps fax rate
9600        9600 bps fax rate
12000       12000 bps fax rate
14400       14400 bps fax rate
disable     Disalbe
gw1(config-vservice-voip)# fax rate 9600

```

```
gw1(config-vservice-voip)# end  
gw1#
```

- **Default value**

The default values and features are described as bellows,

- Timeout restart : 5 sec
- Timeout tretry : 4 sec
- Timeout thist : 30 sec
- Timeout tmax : 20 sec
- DTMF relay : inband
- T.38 : enabled with 9600 bps