



ศูนย์เทคโนโลยีสารสนเทศและการสื่อสาร สบ.มท.  
Information and Communication Technology Center.

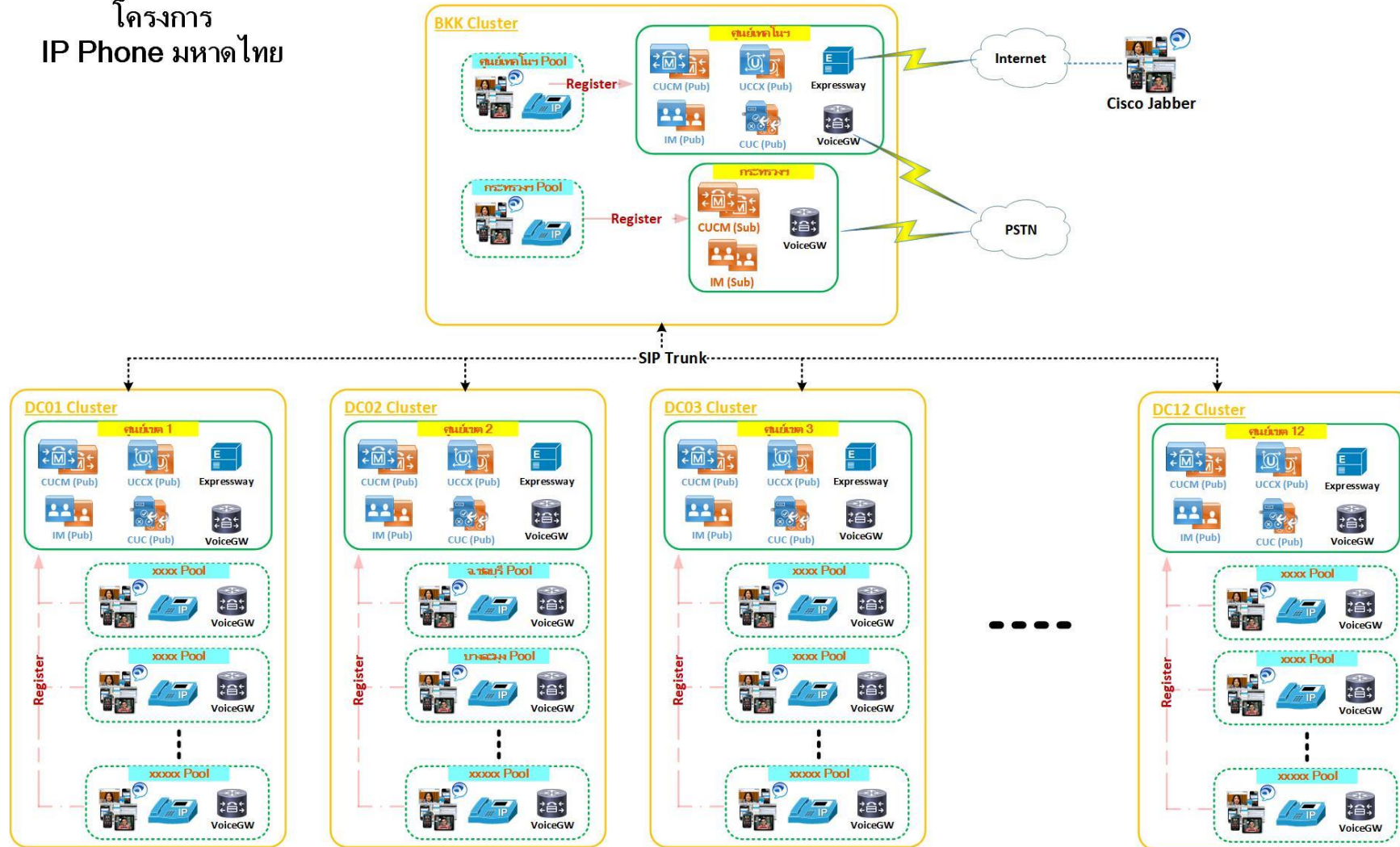
**SAMART**

# IP Telephony

## CLI VG320, VG202XM CONFIGURATION

ศูนย์เทคโนโลยีสารสนเทศและการสื่อสาร สบ.มท.

## โครงการ IP Phone มหาดไทย



- Basic Config

```
1 Basic Config
2 =====
3 hostname XXXX.moi.go.th
4 clock timezone GMT 7 0
5 ip domain lookup
6 ip name-server 10.252.0.61 10.252.1.11
7 ip domain-name moi.go.th
8 crypto key generate rsa
9
10 username XXXX privilege 15 secret 0 XXXX
11 line vty 0 4
12   transport input ssh telnet
13   login local
14
15 interface GigabitEthernet0/0/0
16   ip addr X.X.X.X X.X.X.X
17
18 ip tftp source-interface GigabitEthernet0/0/0
19 ip route 0.0.0.0 0.0.0.0 X.X.X.X
20
21
22 MGCP
23 =====
24 mgcp
25 mgcp call-agent X.X.X.X service-type mgcp version 0.1
26 mgcp bind control source-interface GigabitEthernet0/0/0
27 mgcp bind media source-interface GigabitEthernet0/0/0
28
29 ccm-manager fallback-mgcp
30 ccm-manager redundant-host X.X.X.X X.X.X.X
31 ccm-manager mgcp
32 no ccm-manager fax protocol cisco
33 ccm-manager config server X.X.X.X
34 ccm-manager config
35
```

```
36 voice service
37 =====
38 voice service voip
39   ip address trusted list
40   ipv4 0.0.0.0 0.0.0.0
41   allow-connections h323 to h323
42   allow-connections h323 to sip
43   allow-connections sip to h323
44   allow-connections sip to sip
45   no supplementary-service h450.2
46   no supplementary-service h450.3
47   supplementary-service h450.12
48   no supplementary-service h225-notify cid-update
49   no supplementary-service sip moved-temporarily
50   no supplementary-service sip refer
51   fax protocol pass-through g711alaw
52   modem passthrough nse codec g711alaw
53
54
55 voice class codec 1
56   codec preference 1 g711alaw
57   codec preference 2 g711ulaw
58   codec preference 3 g729br8
59   codec preference 4 g729r8
60
61
62
63 snmp
64 =====
65 snmp-server community m01@dm1nRW RW
66 snmp-server community m01@dm1nRO RO
67 snmp-server ip dscp 16
68 snmp-server enable traps snmp authentication linkdown linkup coldstart warmstart
69 snmp-server enable traps config
70 snmp-server enable traps entity
71 snmp-server enable traps syslog
72 snmp-server host X.X.X.X version 2c m01@dm1n
```

- show running-config

```
1 copi-voip-vg320p1-f5#sho run
2 Building configuration...
3
4
5
6
7 Current configuration : 10659 bytes
8 !
9 ! Last configuration change at 12:20:57 UTC Fri Apr 14 2023
10 !
11 version 15.6
12 no service pad
13 service timestamps debug datetime msec
14 service timestamps log datetime msec
15 no service password-encryption
16 !
17 hostname copi-voip-vg320p1-f5
18 !
19 boot-start-marker
20 boot-end-marker
21 !
22 !
23 no logging console
24 !
25 no aaa new-model
26 !
27 !
28 !
29 !
30 !
31 !
32 !
33 !
34 !
35 !
36 !
37 ip domain name moi.go.th
38 ip name-server 10.252.0.61
39 ip name-server 10.252.1.11
40 ip cef
41 no ipv6 cef
42 multilink bundle-name authenticated
```

```
36 !
37 ip domain name moi.go.th
38 ip name-server 10.252.0.61
39 ip name-server 10.252.1.11
40 ip cef
41 no ipv6 cef
42 multilink bundle-name authenticated
43 !
44 !
45 stcapp feature speed-dial
46 prefix ###
47 !
48 !
49 !
50 stcapp supplementary-services
51 port 0/0/0
52 fallback-dn 51431
53 port 0/0/1
54 fallback-dn 51553
55 port 0/0/2
56 fallback-dn 51501
57 port 0/0/3
58 fallback-dn 51800
59 port 0/0/4
60 fallback-dn 51801
61 port 0/0/5
62 fallback-dn 51802
63 port 0/0/6
64 fallback-dn 51803
65 port 0/0/7
66 fallback-dn 51804
67 !
68 !
69 !
70 !
71 crypto pki trustpoint TP-self-signed-2871966706
72 enrollment selfsigned
73 subject-name cn=IOS-Self-Signed-Certificate-2871966706
74 revocation-check none
75 rsakeypair TP-self-signed-2871966706
76 !
```

- show running-config

```
76 !
77 !
78 crypto pki certificate chain TP-self-signed-2871966706
79 voice-card 0
80 !
81 !
82 !
83 voice service voip
84   allow-connections h323 to h323
85   allow-connections h323 to sip
86   allow-connections sip to h323
87   allow-connections sip to sip
88   no supplementary-service h450.2
89   no supplementary-service h450.3
90   supplementary-service h450.12
91   no supplementary-service h225-notify cid-update
92   no supplementary-service sip moved-temporarily
93   no supplementary-service sip refer
94   no supplementary-service sip handle-replaces
95   fax protocol pass-through g711alaw
96   modem passthrough nse codec g711alaw
97 !
98 voice class codec 1
99   codec preference 1 g711alaw
100  codec preference 2 g711ulaw
101  codec preference 3 g729br8
102  codec preference 4 g729r8
103 !
104 !
105 !
106 !
107 !
108 !
109 !
110 !
111 license udi pid VG320 sn FGL2439LLWZ
112 license boot module vg3x0 technology-package uck9
113 hw-module pvdm 0/0
114 !
115 username admin privilege 15 secret 5 $1$rCDy$JSFitizDxhLQX1712ZMhX1
116 !
```

```
121 !
122 interface GigabitEthernet0/0
123   ip address 10.230.1.48 255.255.255.0
124   duplex auto
125   speed auto
126 !
127 interface GigabitEthernet0/1
128   no ip address
129   shutdown
130   duplex auto
131   speed auto
132 !
133 ip forward-protocol nd
134 !
135 !
136 no ip http server
137 no ip http secure-server
138 ip route 0.0.0.0 0.0.0.0 10.230.1.1
139 ip ssh version 2
140 !
141 !
142 !
143 !
144 control-plane
145 !
146 !
147 voice-port 0/0/0
148   vmwi dc-voltage
149   ring cadence external pattern12
150   timing hookflash-in 110 80
151 !
152 voice-port 0/0/1
153 !
154 voice-port 0/0/2
155   vmwi dc-voltage
156   ring cadence external pattern12
157   timing hookflash-in 110 80
158 !
```

- show running-config

```
495 |
496 voice-port 0/1/23
497   vmwi dc-voltage
498   ring cadence external pattern12
499   cptone SE
500   timing hookflash-in 110 80
501   caller-id enable
502   caller-id mode FSK
503 |
504 mgcp
505 mgcp call-agent copi-voip-cucm02.moi.go.th 2427 service-type mgcp version 0.1
506 mgcp rtp unreachable timeout 1000 action notify
507 mgcp modem passthrough voip mode nse
508 mgcp package-capability rtp-package
509 mgcp package-capability sst-package
510 mgcp package-capability pre-package
511 no mgcp package-capability res-package
512 no mgcp timer receive-rtcp
513 mgcp sdp simple
514 mgcp fax t38 inhibit
515 mgcp behavior rsip-range tgcp-only
516 mgcp behavior comedia-role none
517 mgcp behavior comedia-check-media-src disable
518 mgcp behavior comedia-sdp-force disable
519 |
520 mgcp profile default
521 |
522 |
523 ccm-manager music-on-hold
524 |
525 ccm-manager fallback-mgcp
526 ccm-manager redundant-host copi-voip-cucm03.moi.go.th copi-voip-cucm04.moi.go.th
527 ccm-manager mgcp
528 no ccm-manager fax protocol cisco
529 ccm-manager config server 10.230.1.24
530 ccm-manager config
531 |
```

```
533 ccm-manager config
534 |
535 dial-peer voice 999001 pots
536   service mgcpapp
537   port 0/0/1
538 |
539 dial-peer voice 999000 pots
540   service mgcpapp
541   port 0/0/0
542 |
543 dial-peer voice 999002 pots
544   service mgcpapp
545   port 0/0/2
546 |
547 dial-peer voice 999003 pots
548   service mgcpapp
549   port 0/0/3
550 |
551 dial-peer voice 999004 pots
552   service mgcpapp
553   port 0/0/4
554 |
555 dial-peer voice 999005 pots
556   service mgcpapp
557   port 0/0/5
558 |
559 dial-peer voice 999006 pots
560   service mgcpapp
561   port 0/0/6
562 |
563 dial-peer voice 999007 pots
564   service mgcpapp
565   port 0/0/7
566 |
```

- show running-config

```
569 |  
570 vstack  
571 banner exec ^C%  
572 #####  
573 WARNING: This hardware revision of the [VG320] requires Cisco IOS Release 15.6(3)M or later.  
574 Downgrading to an older release will cause FXS port failure.  
575 For more information, refer to the following field notice [FN-64285]  
576 #####  
577 ^C  
578 !  
579 line con 0  
580 line aux 0  
581 line vty 0 4  
582 exec-timeout 90 0  
583 login local  
584 transport input telnet ssh  
585 !  
586 scheduler allocate 20000 1000  
587 !  
588 end  
589  
590 copi-voip-vg320p1-f5#
```

- show running-config

```
1 srt-voip-vg202xm01#show running-config
2 Building configuration...
3
4
5
6 Current configuration : 2916 bytes
7 !
8 ! Last configuration change at 20:50:11 UTC Mon Oct 14 2002
9 !
10 version 15.7
11 no service pad
12 service timestamps debug datetime msec
13 service timestamps log datetime msec
14 no service password-encryption
15 !
16 hostname srt-voip-vg202xm01
17 !
18 boot-start-marker
19 boot-end-marker
20 !
21 !
22 !
23 no aaa new-model
24 !
25 !
26 !
27 !
28 !
29 !
30 !
31 !
32 ip domain name moi.go.th
33 ip name-server 10.252.0.61
34 ip name-server 10.252.1.11
35 ip cef
36 no ipv6 cef
37 !
38 !
```

```
42 !
43 voice service voip
44 allow-connections h323 to h323
45 allow-connections h323 to sip
46 allow-connections sip to h323
47 allow-connections sip to sip
48 no supplementary-service h450.2
49 no supplementary-service h450.3
50 supplementary-service h450.12
51 fax protocol pass-through g711alaw
52 modem passthrough nse codec g711alaw
53 h323
54 emptycapability
55 h225 id-passthru
56 h225 connect-passthru
57 h245 passthru tcsnonstd-passthru
58 sip
59 early-offer forced
60 midcall-signaling passthru
61 !
62 voice class codec 1
63 codec preference 1 g711alaw
64 codec preference 2 g711ulaw
65 codec preference 3 g729br8
66 codec preference 4 g729r8
67 !
68 !
69 !
70 !
71 !
72 !
73 !
74 voice-card 0
75 !
76 username admin privilege 15 secret 5 $1$YXMK$dhLkKDS5J/fitWPXyyiKC/
77 !
```



- show running-config

```
88 !
89 interface FastEthernet0/0
90   ip address 10.228.160.36 255.255.255.0
91   duplex auto
92   speed auto
93 !
94 interface FastEthernet0/1
95   no ip address
96   shutdown
97   duplex auto
98   speed auto
99 !
100 ip forward-protocol nd
101 !
102 no ip http server
103 no ip http secure-server
104 ip tftp source-interface FastEthernet0/0
105 ip route 0.0.0.0 0.0.0.0 10.228.160.1
106 ip ssh version 2
107 ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr
108 ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr
109 !
110 ipv6 ioam timestamp
111 !
112 !
113 control-plane
114 !
115 !
116 voice-port 0/0
117   cptone TH
118   timeouts ringing infinity
119   timing hookflash-in 1000 0
120   bearer-cap Speech
121 !
122 voice-port 0/1
123   timeouts ringing infinity
124   timing hookflash-in 1000 0
125   bearer-cap Speech
126 !
```

```
126 !
127 mgcp
128 mgcp call-agent rg10-voip-cucm01.moi.go.th 2427 service-type mgcp version 0.1
129 mgcp rtp unreachable timeout 1000 action notify
130 mgcp modem passthrough voip mode nse
131 mgcp package-capability rtp-package
132 mgcp package-capability sst-package
133 no mgcp package-capability res-package
134 no mgcp timer receive-rtcp
135 mgcp sdp simple
136 mgcp fax t38 inhibit
137 mgcp bind control source-interface FastEthernet0/0
138 mgcp bind media source-interface FastEthernet0/0
139 mgcp behavior rsip-range tgcp-only
140 mgcp behavior comedia-role none
141 mgcp behavior comedia-check-media-src disable
142 mgcp behavior comedia-sdp-force disable
143 !
144 mgcp profile default
145 !
146 !
147 ccm-manager music-on-hold
148 !
149 ccm-manager fallback-mgcp
150 ccm-manager redundant-host rg10-voip-cucm02.moi.go.th
151 ccm-manager mgcp
152 no ccm-manager fax protocol cisco
153 ccm-manager config server 10.228.160.21
154 ccm-manager config
155 !
156 dial-peer voice 99900 pots
157   service mgcpapp
158   port 0/0
159 !
```

- show running-config

```
159 !
160 dial-peer voice 99901 pots
161     service mgcpapp
162     port 0/1
163 !
164 !
165 !
166 !
167 line con 0
168     no modem enable
169 line aux 0
170 line vty 0 4
171     login local
172     transport input telnet ssh
173 !
174 !
175 end
176
177 srt-voip-vg202xm01#
```

- show ccm-manager

```
copi-voip-vg320p1-f5#show ccm-manager
MGCP Domain Name: copi-voip-vg320p1-f5.moi.go.th
Priority      Status      Host
=====
Primary      Registered  copi-voip-cucm02.moi.go.th (10.230.1.24)
First Backup  Backup Ready  copi-voip-cucm03.moi.go.th (10.230.1.27)
Second Backup Backup Ready  copi-voip-cucm04.moi.go.th (10.230.1.31)

Current active Call Manager: 10.230.1.24
Backhaul/Redundant link port: 2428
Failover Interval: 30 seconds
Keepalive Interval: 15 seconds
Last keepalive sent: 20:27:14 UTC Jul 25 2023 (elapsed time: 00:00:02)
Last MGCP traffic time: 20:27:14 UTC Jul 25 2023 (elapsed time: 00:00:02)
Last failover time: 12:20:47 UTC Apr 14 2023 from (10.230.1.24)
Last switchback time: 12:21:32 UTC Apr 14 2023 from (10.230.1.27)
Switchback mode: Graceful
MGCP Fallback mode: Enabled/OFF
Last MGCP Fallback start time: 12:14:17 UTC Apr 14 2023
Last MGCP Fallback end time: 12:20:50 UTC Apr 14 2023
MGCP Download Tones: Disabled
TFTP retry count to shut Ports: 2

Configuration Auto-Download Information
=====
Current version-id: 1643707593-07415356-0d8e-4c06-9c0f-e80be53e0b06
Last config-downloaded:00:00:00
Current state: Waiting for commands
Configuration Download statistics:
  Download Attempted      : 1
  Download Successful     : 1
  Download Failed         : 0
  TFTP Download Failed    : 0
  Configuration Attempted : 1
  Configuration Successful : 1
  Configuration Failed(Parsing): 0
  Configuration Failed(config) : 0
Last config download command: New Registration
FAX mode: disable
Configuration Error History:
copi-voip-vg320p1-f5#
```

- show voice call status

```
copi-voip-vg320p1-f5#show voice call status
CallID      CID  ccVdb      Port      Slot/DSP:Ch  Called #   Codec   MLPP Dial-peers
No active calls found
copi-voip-vg320p1-f5#
```



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Thanks and Regards.

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