

Appendix A – Cisco® MCM Configuration Summary

The following configuration is for a session that sets up a Cisco® router as a gatekeeper and H.323 proxy. It is minimally commented, so for further explanation please refer to the Cisco® information in Section 7. In this example, a single physical port has been used between the endpoint and the college's site access router. The commands would have to be altered slightly in a different topology.

It is expected that the configuration will be carried out by personnel with experience of configuring Cisco® routers, so many commands that are not relevant to gatekeeper/proxy set-up have not been included in this summary (although these would be necessary for full and secure functionality of the router).

Plug the network cable (100Mbit/s Full Duplex recommended) into an interface. This is normally called interface fastethernet0/0 or fastethernet0/1. The configuration of the interface is dependent on which interface you plug your cable into. This example has the cable plugged into interface 0/1.

Log in to the router and enter **en** to enable command mode. Enter **conf term** to get in to configuration mode (and later, **CTRL Z** to exit the configuration mode once completed). When finished all configuration enter **CTRL Z** and **write mem** to save the configuration. If at any time you are unsure as to which command to enter, options can be found by entering a question mark. This configuration example includes some commands that are necessary if starting from scratch with a new router. Those necessary for gatekeeper and/or H.323 proxy configuration (which are discussed in Section 7) are in **bold**. This script is designed so that with minimal editing, it can be copied straight into the router. Comments are preceded by an ! exclamation mark.

! Start of configuration

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! If running proxy services

proxy h.323

! Configure the port which connects the gatekeeper to the network

interface FastEthernet0/1

! Enter this port's IP address followed by its subnet mask (replace 'xxx's)

ip address xxx.xxx.xxx.xxx 255.255.255.248

! Next two commands assume the device connected is set to 100Mbit/s, full

! duplex, otherwise change accordingly (to avoid 'autosensing')

! Set duplex type to full

duplex full

! Set speed to 100Mbit/s

speed 100

! Designate the IP address of this interface to be the Proxy's IP address

h323 interface

! Specify an H323 ID for the Proxy (replace any-px with your proxy's name)

h323 h323-id any-px.any.ac.uk

! Configure the Proxy to register with the gatekeeper (substitute the IP address of your gatekeeper)

h323 gatekeeper ipaddr 192.168.7.8

! Pass T.120 unmodified (do not proxy T.120 data):

h323 t120 bypass

! exit to go back to router config:

exit

! Enter gatekeeper configuration mode

gatekeeper

! Now in (config-gk) mode

! Set local zone (substitute your local values)

zone local gatekeeper-name.any.ac.uk any.ac.uk

! Set remote zone gatekeepers (JVCS national directory gatekeepers)

zone remote gatekeeper-name1.ja.net ja.net aaa.bbb.ccc.ddd 1719

zone remote gatekeeper-name2.ja.net ja.net zzz.yyy.xxx.www 1719

! Enter E164 prefix for your gatekeeper (supplied by JVCS)

zone prefix gk-name.any.ac.uk 0044xxxxx*

! E164 prefixes for JVCS national directory servers

zone prefix gatekeeper-name1.ja.net 00*

zone prefix gatekeeper-name2.ja.net 00*

! to make the default action to deny access to non-defined endpoints:

no zone subnet gk.any.ac.uk default enable

! endpoint registration (substitute your terminals' IP addresses and your gatekeeper's DNS name)

zone subnet gk.any.ac.uk 192.168.6.11/32 enable

zone subnet gk.any.ac.uk 192.168.6.11/32 enable

zone subnet gk.any.ac.uk 192.168.7.0/24 enable

! Forward LRQ queries

lrq forward-queries

! if you do not wish to use the H.323 proxy use the following commands:

no use-proxy any-gk.any.ac.uk default inbound-to terminal

no use-proxy any-gk.any.ac.uk default outbound-from terminal

! if you wish to use the H.323 proxy use the following commands:

use-proxy any-gk.any.ac.uk remote-zone gatekeepername.ja.net inbound-to terminal

use-proxy any-gk.any.ac.uk default inbound-to terminal

use-proxy any-gk.any.ac.uk default outbound-from terminal

! Switch on gatekeeper

no shutdown

! Go back to (config):

exit

exit

! Save the configuration

write mem

! To finish the session

CTRL Z

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