

CUSTOMER HAS ONE PUBLIC IP ADDRESS USING ROUTER / NAT

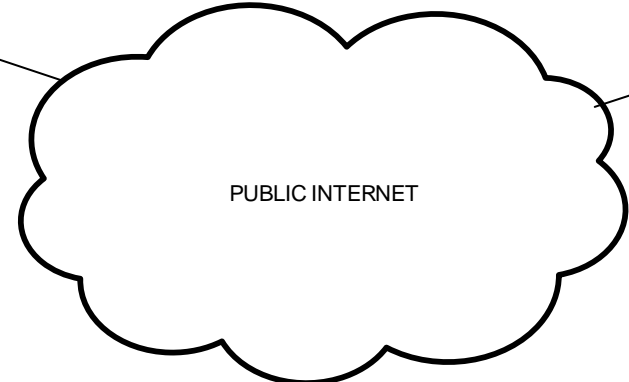
EXTERNAL CONCERT CLIENT

REMOTE IP PANEL
 LOGIN IP = IVC-32 EXTERNAL ADDRESS
 LOGIN IP = 86.86.86.10
 LOGIN PORT = 6003

CUSTOMER HAS ONE PUBLIC IP ADDRESS USING ROUTER / NAT
 PUBLIC IP = 86.86.86.10

Login Server
 Login Server [86.86.86.10]
 Advanced <<
 Login Server Port [6001]

CONCERT CLIENTS SERVER LOGIN SET TO CONCERT SERVER EXTERNAL IP ADDRESS
 THE ROUTER / NAT MAPPING WILL RESOLVE THE IP ADDRESS FOR THE INTERNAL USERS
 THIS ALLOWS THE INTERNAL USERS TO MOVE BETWEEN INTERNAL LAN AND EXTERNAL INTERNET WITH OUT CHANGING LOGIN DETAILS
 OR SETUP ROUTER TO USE HOSTNAME CONCERT SERVER
 I.E: CONCERT.SERVER@CUSTOMER.COM
 THIS WAY IT DOES NOT MATTER HOW THE CONCERT CLIENT CONNECTS THE ROUTER WILL USE THE CORRECT IP ADDRESS



ANY INCOMING PACKET WITH IP ADD: 86.86.86.10 PORT 6003 IS ROUTED TO THE IVC-32 CARD

ANY INCOMING PACKET WITH IP ADD: 86.86.86.10 PORT 6001 IS ROUTED TO THE CONCERT SERVER

ROUTER MAPPING
 86.86.86.10:6003 ↔ 192.168.42.160:6003
 OPEN BOTH TCP AND UDP PORTS

ROUTER MAPPING
 86.86.86.10:6001 ↔ 192.168.42.200:6001
 OPEN BOTH TCP AND UDP PORTS

CONCERT SERVER
 IP ADDRESS 192.168.42.200

INTERNAL CONCERT CLIENT

LOCAL IP PANEL
 LOGIN IP = IVC-32 INTERNAL ADDRESS
 LOGIN IP = 192.168.42.160
 LOGIN PORT = 6003

IVC-32 Card Properties

TCP/UDP Port: 6003
 IP Address: 192.168.42.160
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.42.1
 External IP Address: 86.86.86.10
 External TCP/UDP Port: 6003

Navigation: Nodes > Default Node > Eclipse IVC-32

ECLIPSE IVC-32 CARDS

Eclipse Hostname	Des
86.86.86.10:6003	IVC-32 external users

Username (Concert login credential): user1
 Password (Concert login credential): [REDACTED] (retype password)
 Account Enabled
 Interface Enabled

Eclipse Username: de78976c
 Eclipse Password: [REDACTED] (retype password)
 Eclipse IVC-32 card: 86.86.86.10:6003
 Eclipse Enabled

ON THE CONCERT EMS
 DECLARE ONE IVC-32 NODE
 THE ENTERAL IVC-32 IP ADDRESS IS USED BY ALL CONCERT CLIENTS

KEY CODE
 BLACK - CAT5 / AUDIO
 BLUE - ENCORE PARTY LINE
 RED - ETHERNET
 GREEN - COAX
 VIOLET - AES-3 / DIGITAL AUDIO
 ORANGE - FIBRE

A2 DO NOT SCALE 3rd ANGLE

All dimensions are in mm unless otherwise stated.
 Normal tolerances: 0.2mm
 No decimal places: +0/-0.2mm
 1 decimal place: +0/-0.3mm
 2 decimal places: +0/-0.1mm
 Unless otherwise stated.

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 Web: Clearcom.com

File location

TITLE

NETWORKING IVC-32 & CONCERT VIA ROUTER / NAT DEVICE

DATE

ISSUE

V5

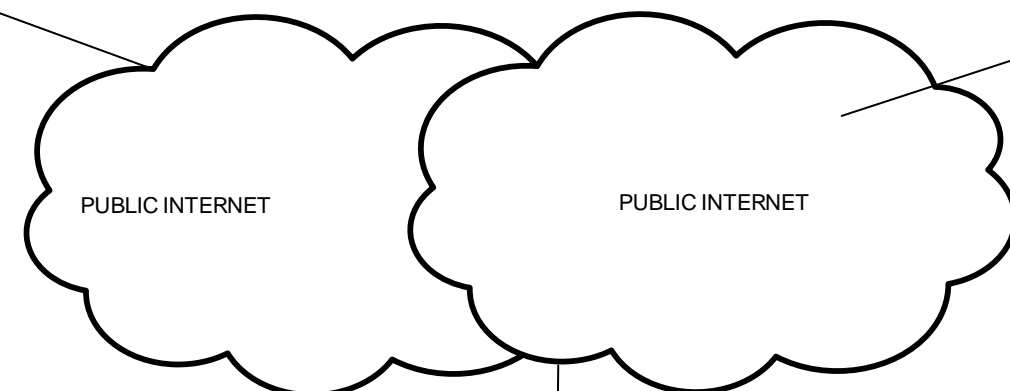
CUSTOMER HAS TWO PUBLIC IP ADDRESS USING ROUTER / NAT

REMOTE IP PANEL
 LOGIN IP = IVC-32 EXTERNAL ADDRESS
 LOGIN IP = 86.86.86.10
 LOGIN PORT = 6001

CUSTOMER HAS TWO PUBLIC IP ADDRESS USING ROUTER / NAT
 PUBLIC IP = 86.86.86.10 (IVC-32)
 PUBLIC IP = 86.86.86.11 (CONCERT)

EXTERNAL CONCERT CLIENT

Login Server
 Login Server 86.86.86.11
 Advanced <<
 Login Server Port 6001



CONCERT CLIENTS SERVER LOGIN SET TO CONCERT SERVER EXTERNAL IP ADDRESS
 THE ROUTER / NAT MAPPING WILL RESOLVE THE IP ADDRESS FOR THE INTERNAL USERS
 THIS ALLOWS THE INTERNAL USERS TO MOVE BETWEEN INTERNAL LAN AND EXTERNAL INTERNET WITH OUT CHANGING LOGIN DETAILS
 OR SETUP ROUTER TO USE HOSTNAME CONCERT SERVER
 I.E: CONCERT.SERVER@CUSTOMER.COM
 THIS WAY IT DOES NOT MATTER HOW THE CONCERT CLIENT CONNECTS THE ROUTER WILL USE THE CORRECT IP ADDRESS

ANY INCOMING PACKET WITH IP ADD: 86.86.86.10 IS ROUTED TO THE IVC-32 CARD

ANY INCOMING PACKET WITH IP ADD: 86.86.86.11 IS ROUTED TO THE CONCERT SERVER

ROUTER MAPPING
 86.86.86.10:6001 ↔ 192.168.42.160:6001
 OPEN BOTH TCP AND UDP PORTS

ROUTER MAPPING
 86.86.86.11:6001 ↔ 192.168.42.200:6001
 OPEN BOTH TCP AND UDP PORTS

CONCERT SERVER
 IP ADDRESS 192.168.42.200

INTERNAL CONCERT CLIENT

LOCAL IP PANEL
 LOGIN IP = IVC-32 INTERNAL ADDRESS
 LOGIN IP = 192.168.42.160
 LOGIN PORT = 6001

IVC-32 Card Properties

TCP/UDP Port: 6001
 IP Address: 192.168.42.160
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.42.1
 External IP Address: 86.86.86.10
 External TCP/UDP Port: 6001

Close

Navigation: Nodes > Default Node > Eclipse IVC-32

ECLIPSE IVC-32 CARDS

Eclipse Hostname	Des
86.86.86.10:6003	IVC-32 external users

Username (Concert login credential): user1
 Password (Concert login credential): [REDACTED] (retype password)
 Account Enabled
 Interface Enabled

Eclipse Username: de78976c
 Eclipse Password: [REDACTED] (retype password)
 Eclipse IVC-32 card: 86.86.86.10:6001
 Eclipse Enabled

Submit Cancel

ON THE CONCERT EMS
 DECLARE ONE IVC-32 NODE
 THE ENTERAL IVC-32 IP ADDRESS IS USED BY ALL CONCERT CLIENTS

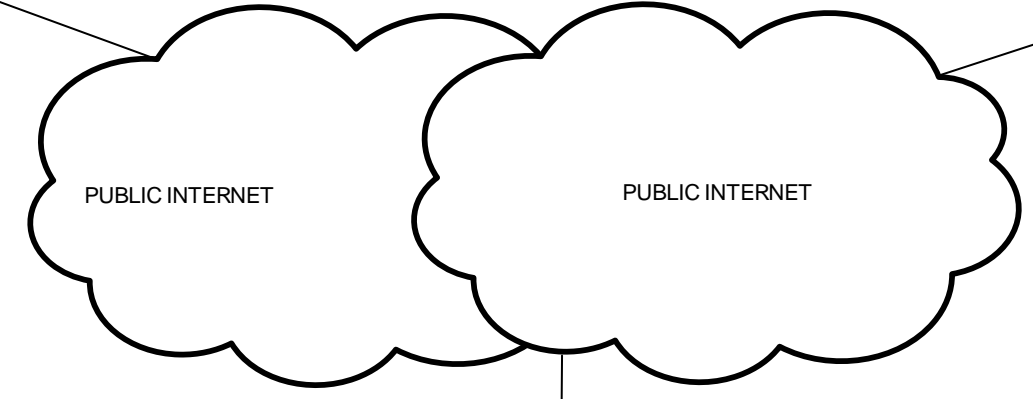
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 VIOLET - AES-3 / DIGITAL AUDIO
 ORANGE - FIBRE

Connecting V Panels and Agent IC using Router/NAT

REMOTE IP PANEL
 LOGIN IP = IVC-32 EXTERNAL ADDRESS
 LOGIN IP = 86.86.86.10
 LOGIN PORT = 6001

CUSTOMER HAS AN IVC-32 WITH A PUBLIC IP ADDRESS USING ROUTER / NAT
 For example:
 INTERNAL IP = 192.168.42.160
 PUBLIC IP = 86.86.86.10

EXTERNAL AGENT-IC CLIENT



ANY INCOMING PACKET WITH IP ADD: 86.86.86.10 IS ROUTED TO THE IVC-32 CARD

ROUTER MAPPING
 86.86.86.10:6001 ↔ 192.168.42.160:6001

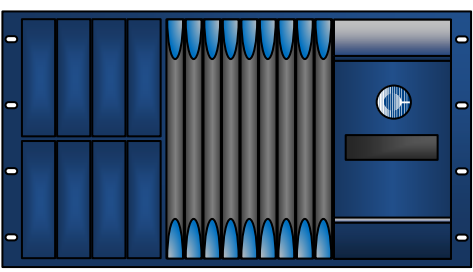
OPEN BOTH TCP AND UDP PORTS

LOCAL IP PANEL
 LOGIN IP = IVC-32 INTERNAL ADDRESS
 LOGIN IP = 192.168.42.160
 LOGIN PORT = 6001

IVC-32 Card Properties

TCP/UDP Port:	6001
IP Address:	192.168.42.160
Subnet mask:	255.255.255.0
Default gateway:	192.168.42.1
External IP Address:	86.86.86.10
External TCP/UDP Port:	6001

[Close](#)



Settings		Done
CONNECTION		
User	CC-Demo	
Password	●●●●	
Eclipse Server	86.86.86.10	
Eclipse port	6001	

Settings		Done
CONNECTION		
User	CC-Demo	
Password	●●●●	
Eclipse Server	192.168.42.160	
Eclipse port	6001	



INTERNAL AGENT-IC CLIENT

KEY CODE
BLACK - CAT5 / AUDIO
BLUE - ENCORE PARTY LINE
RED - ETHERNET
GREEN - COAX
VIOLET - AES-3 / DIGITAL AUDIO
ORANGE - FIBRE

A2 **DO NOT SCALE**

3rd ANGLE

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 1 decimal place: ±0.2mm
 2 decimal places: ±0.1mm
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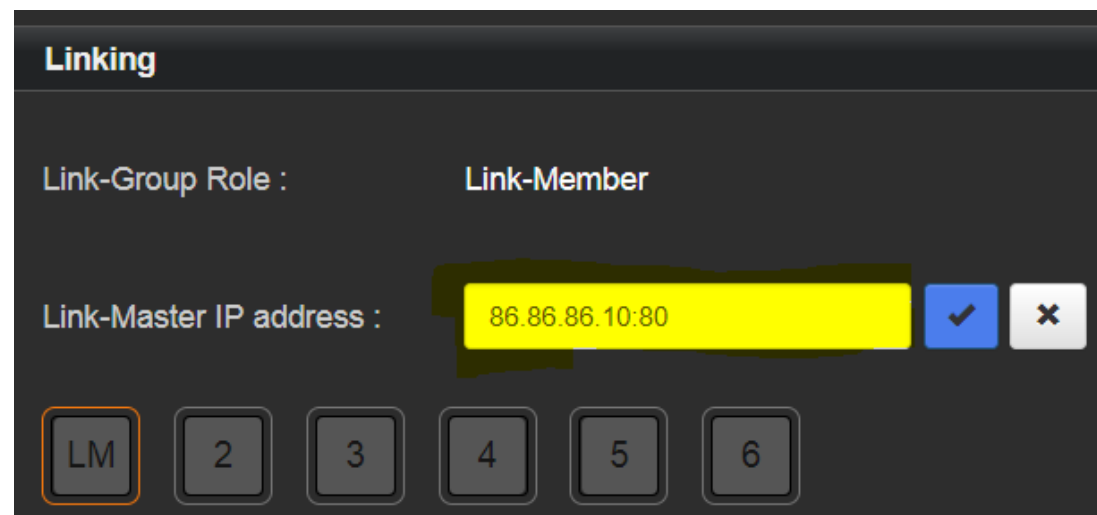
File location

TITLE

DATE

ISSUE

V5

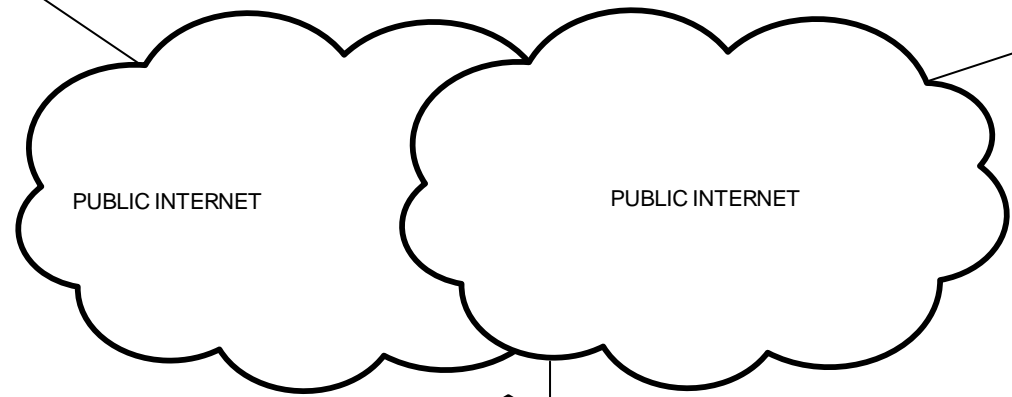


If no port is declared in the Link-Master IP address, the default port 80 will be used.

Connecting Agent-LQ and LQ using Router/NAT

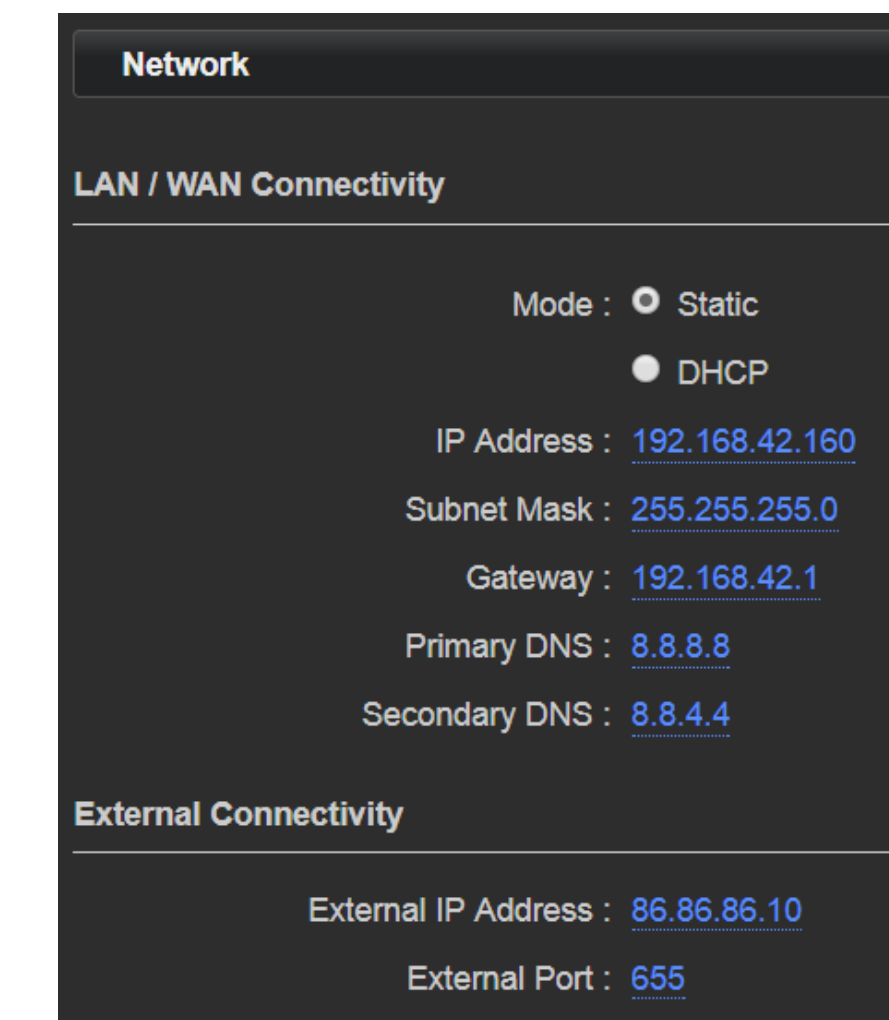
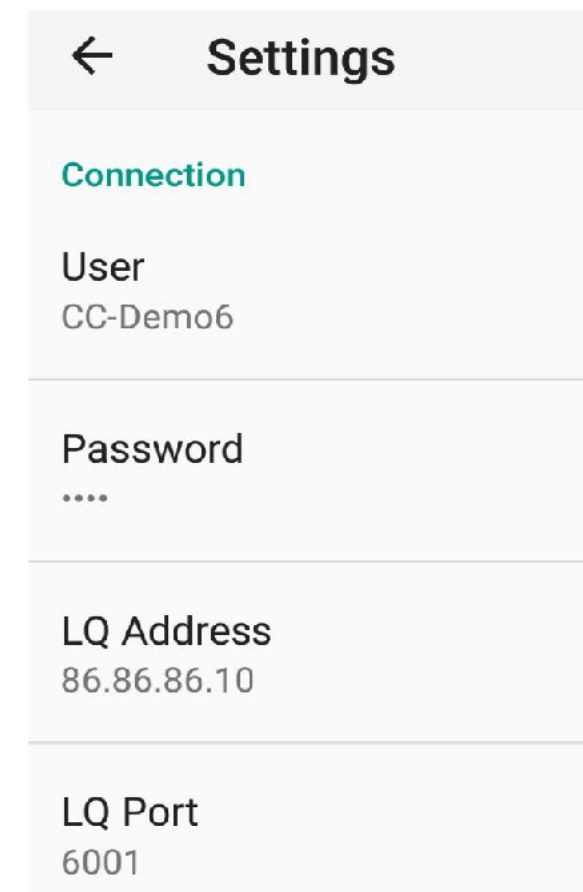


CUSTOMER HAS AN LQ WITH A PUBLIC IP ADDRESS USING ROUTER / NAT
 For example:
 INTERNAL IP = 192.168.42.160
 PUBLIC IP = 86.86.86.10

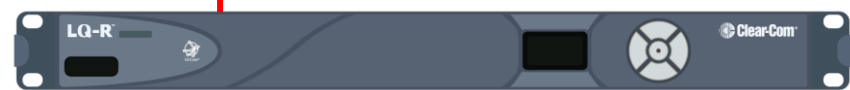


ANY INCOMING PACKET WITH IP ADDRESS: 86.86.86.10 IS ROUTED TO THE Link-Master LQ

EXTERNAL AGENT-LQ CLIENT

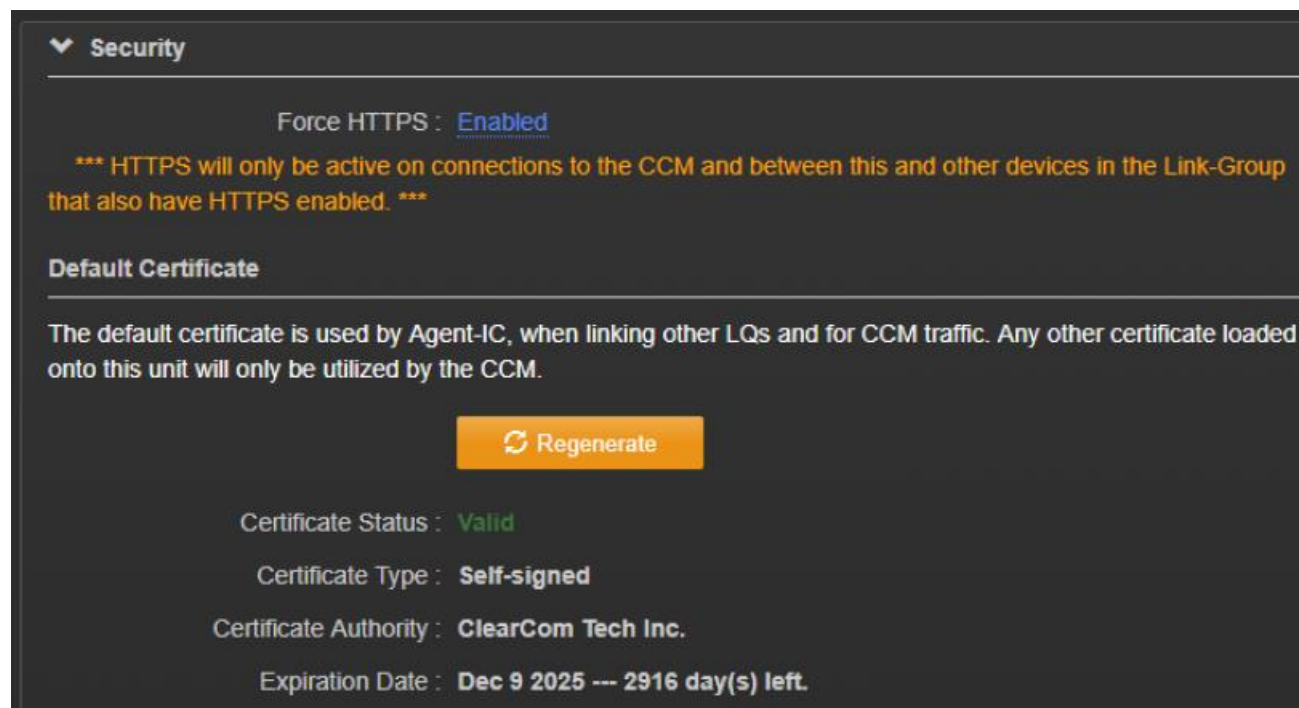


If "External Port" is left blank, it defaults to 655.

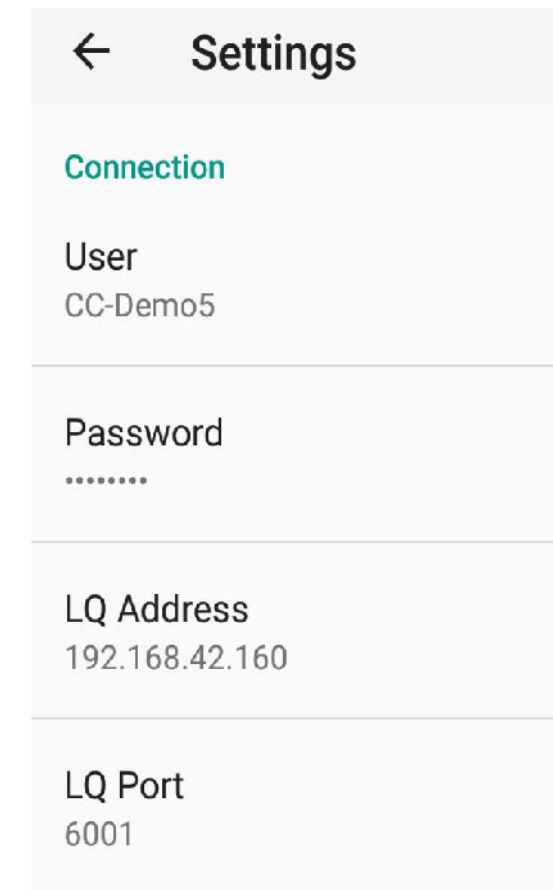


ROUTER MAPPING
 86.86.86.10:6001 ↔ 192.168.42.160:6001
 86.86.86.10:655 ↔ 192.168.42.160:655
 86.86.86.10:80 ↔ 192.168.42.160:80

OPEN BOTH TCP AND UDP PORTS 6001 for Agent-LQ
 OPEN TCP 80 for linking, data distribution and browser-based Management
 OPEN BOTH TCP AND UDP PORTS 655 for group connectivity and audio transmission.



IT IS RECOMMENDED YOU RE-GENERATE THE LQ CERTIFICATE WHENEVER YOU CHANGE THE EXTERNAL IP ADDRESS SETTINGS



INTERNAL AGENT-LQ CLIENT

KEY CODE
BLACK - CAT5 / AUDIO
BLUE - ENCORE PARTY LINE
RED - ETHERNET
GREEN - COAX
VIOLET - AES-3 / DIGITAL AUDIO
ORANGE - FIBRE

A2	DO NOT SCALE		DRAWN BY		2000 Beach Drive Cambridge CB25 9TP United Kingdom Tel: +44 1223 815000 Fax: +44 1223 815099 Web: Clearcom.com	FILE LOCATION	TITLE	DATE
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