ClearOne®

Divisible Room

Design Guide

DOC-0514-001   REV 1.9 - 08 April 2022

AUDIO VISUAL
DISTRIBUTORS

Room Application
Cloud Collaboration
Audio Conferencing

Included Interfaces
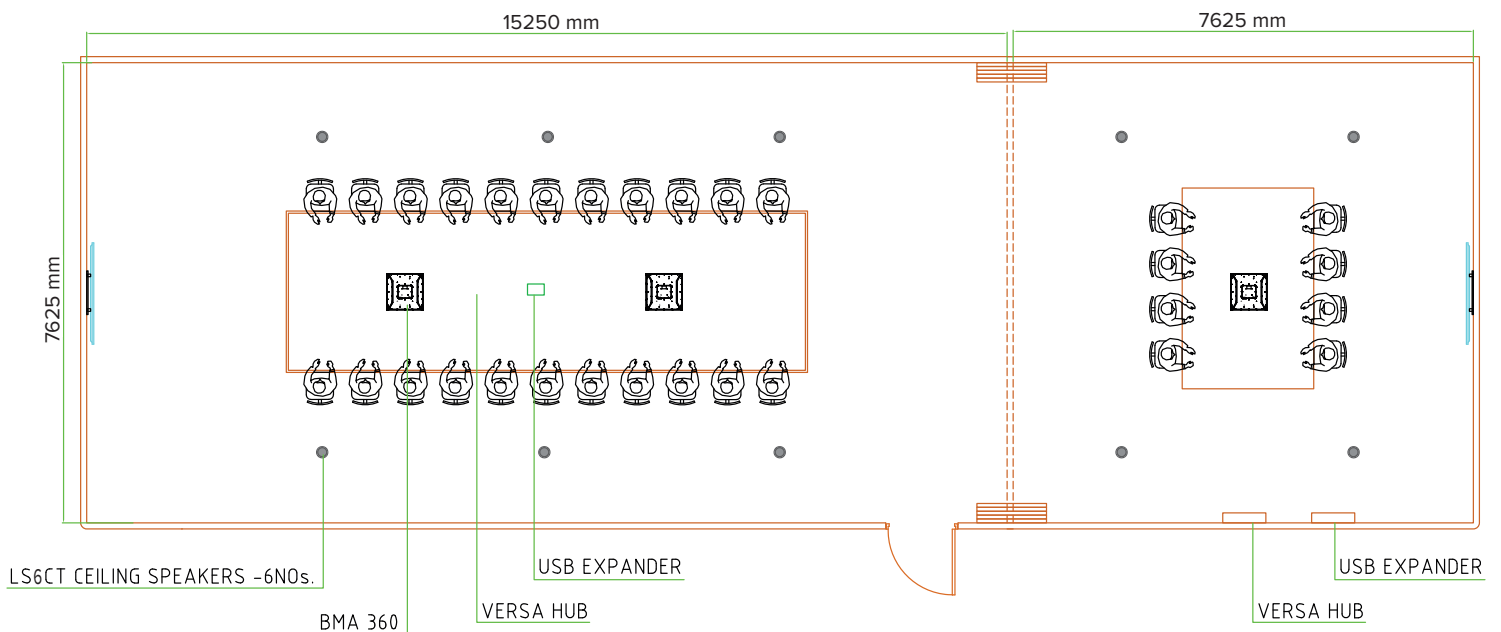VoIP, Analog Telco, USB Audio, Camera

Primary Equipment
- CP2 128VT
- BMA 360
- UNITE® 150
- Versa™ Hub

Software/Firmware revisions utilized
- CONSOLE® AI Version: 7.5.4.1
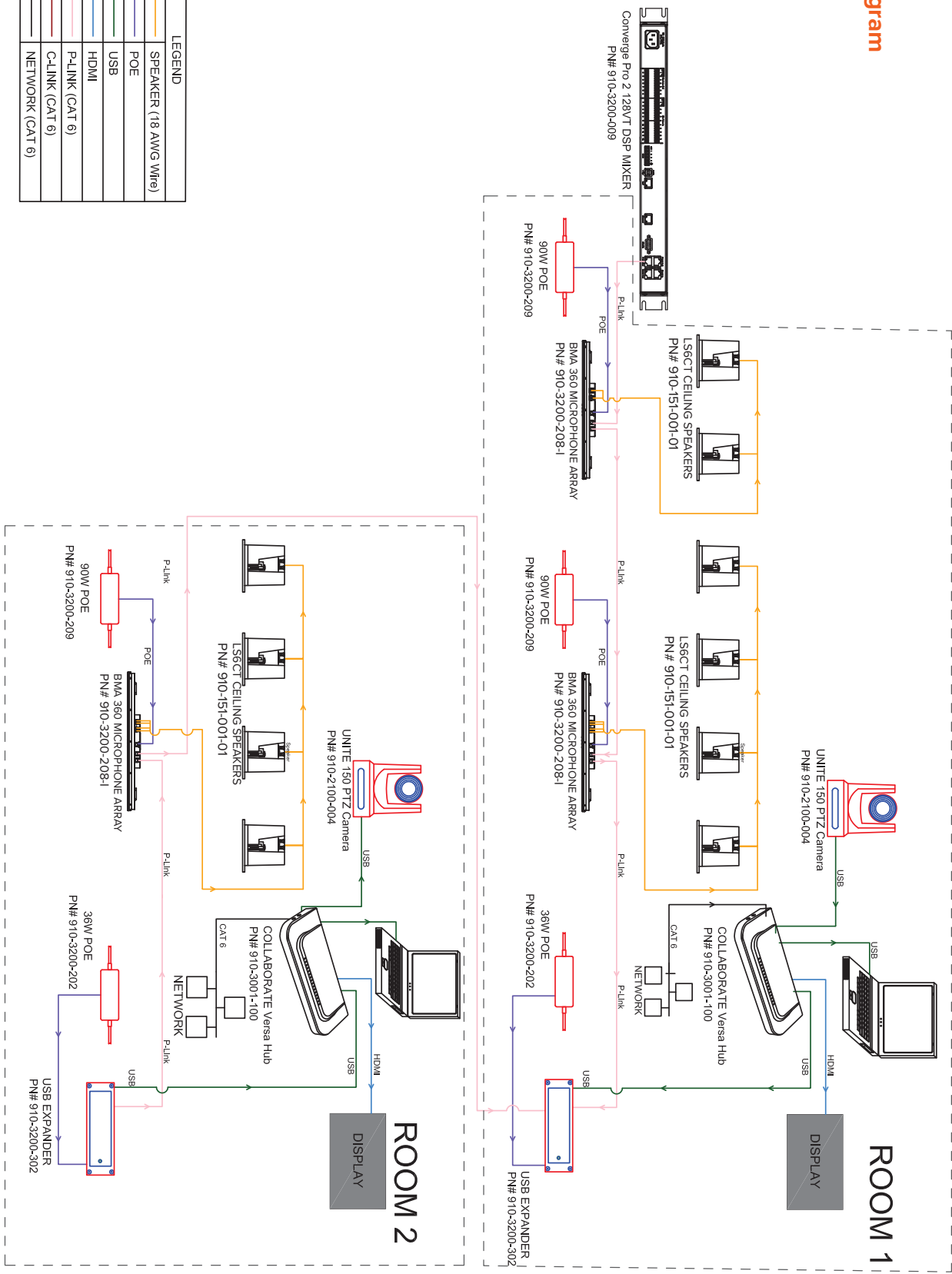- DSP Version: 8.5.15.0
- BMA 360 Version: 1.0.6.10

Room Illustrations

15250 mm

7625 mm

7625 mm

LS6CT CEILING SPEAKERS -6NOs.

USB EXPANDER

USB EXPANDER

BMA 360

VERSA HUB

VERSA HUB

Room Description
A divisible room with VoIP, Telco, and BYOD Cloud collaboration capabilities. When divided, the larger conferencing space is capable of cloud-based video calls, VoIP, or POTS telephony calls while the smaller space has dedicated resources for cloud collaboration. Have a larger group attending? Combine the spaces and have access to all system resources.

Wiring Diagram

Converge Pro 2 128VT DSP MIXER
PN# 910-3200-009

90W POE
PN# 910-3200-209

BMA 360 MICROPHONE ARRAY
PN# 910-3200-208-I

LS6CT CEILING SPEAKERS
PN# 910-151-001-01

90W POE
PN# 910-3200-209

BMA 360 MICROPHONE ARRAY
PN# 910-3200-208-I

LS6CT CEILING SPEAKERS
PN# 910-151-001-01

UNITE 150 PTZ Camera
PN# 910-2100-004

COLLABORATE Versa Hub
PN# 910-3001-100

36W POE
PN# 910-3200-202

USB EXPANDER
PN# 910-3200-302

DISPLAY

ROOM 1

90W POE
PN# 910-3200-209

BMA 360 MICROPHONE ARRAY
PN# 910-3200-208-I

LS6CT CEILING SPEAKERS
PN# 910-151-001-01

UNITE 150 PTZ Camera
PN# 910-2100-004

COLLABORATE Versa Hub
PN# 910-3001-100

36W POE
PN# 910-3200-202

USB EXPANDER
PN# 910-3200-302

DISPLAY

ROOM 2

LEGEND

SPEAKER (18 AWG Wire)	
POE	
USB	
HDMI	
P-LINK (CAT 6)	
C-LINK (CAT 6)	
NETWORK (CAT 6)	

NOTE: ANY INDIVIDUAL P-LINK MUST NOT EXCEED 61 METRES IN LENGHT

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Equipment list:

Qty	Part Number	Product Name	Description
1	910-3200-009	CONVERGE® Pro 2 128VT	DSP Mixer with 12 Mic/Line AEC Inputs, 8 Mic/Line Outputs, USB Audio, VoIP, Telephone Interface
3	910-3200-208-I	BMA 360 600mm	BMA with 4 x 15 Watt Power Amplifiers. PoE Injector and CAT6 cables not included.
3	910-3200-209	90W PoE++ power supply kit for BMA	Includes 1 x 90 Watt PoE++ Injector, 2 x 7.6m CAT6 cables
2	910-3200-202	36W PoE+ power supply kit for BMA	Includes 1 x 36 Watt PoE+ Injector, 2 x 7.6m CAT6 cables
2	910-3200-302	USB Expander for CONVERGE® Pro 2	Includes 1.8m USB cable
5	910-151-001-01	Ceiling Speakers	Includes 2 x LS6CT ceiling speakers with 8 ohm and 70V/100V transformer taps and ceiling tile bridges.
2	910-2100-004	UNITE® 150 PTZ Camera	PTZ camera with 12x optical Zoom, 1080P30 Full HD, USB
2	910-3001-100	COLLABORATE® Versa™ Hub	Hub that connects USB camera, USB audio, room displays and laptop

The downloadable configuration file, illustrated here, contains two presets, for combined and divided modes.

FlowView™ Diagram
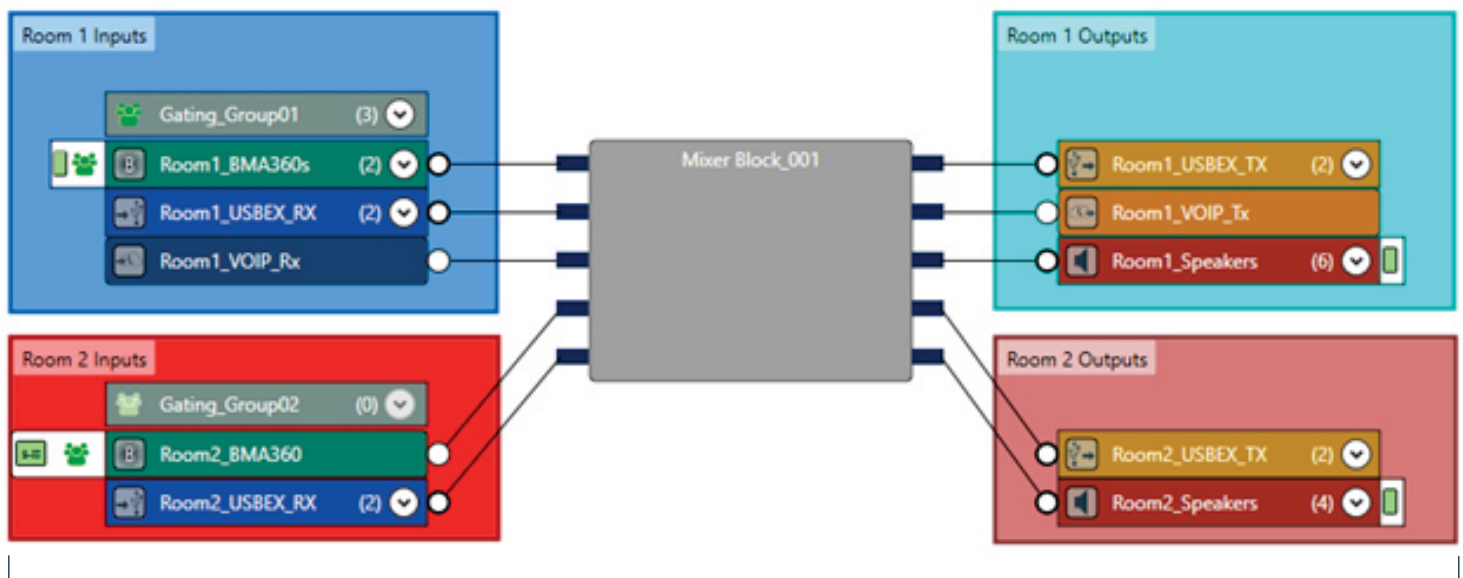
Included Macros

- Room_Combined: Combine all Room 1 and 2 audio routing into a single audio system.
- Room_Divided: Separate audio routing so that Room 1 and 2 operate independently.
- Combined_Mute_Toggle: Toggle all BMA360 microphone mute states for both rooms.
- Room1_Mute_Toggle: Toggle the mute state for the Room 1 BMA 360 microphones.
- Room2_Mute_Toggle: Toggle the mute state for the Room 2 BMA 360 microphones.
- Combined_VolUP_3: Increase all speakers by 3 dB.
- Combined_VolDN_3: Decrease all speakers by 3dB.
- Room1_VolUP_3: Increase the Room 1 Speaker group volume by 3 dB.
- Room1_VolDN_3: Decrease the Room 1 Speaker group volume by 3 dB.
- Room2_VolUP_3: Increase the Room 2 Speaker group volume by 3 dB.
- Room2_VolDN_3: Decrease the Room 2 Speaker group volume by 3 dB.

* Macros can be executed via Telnet or serial communications.
  Refer to the Converge Pro 2 Serial Command Reference Manual for details.

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