Dante
AV NETWORKING WORLD

Case study:
Networked Audio at KAP Europa

Daniel Buss, Sales Support Engineer Bose Professional

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KAP Europa

- Innovative convention center in the middle of Frankfurt (Germany)
- Next to Messe Frankfurt
- Operated by Messe Frankfurt
- Light, air, acoustics and the interior ensure a perfect climate
- Platinum certificated of German sustainable Building Council (DGNB)

DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen
German Sustainable Building Council

Picture source: www.kapeuropa.de

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Venue

- 7.700 m² event space
- 14 conference rooms

- 4.200 m² event space
  Catering, Business Talks …

Picture source: www.kapeuropa.de

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Venue

Customer requirement:

audio system matching the acoustical demands of every conference room.

Focus on high quality sound for speech and video by using highly energy efficient devices.

Picture source: www.kapeuropa.de

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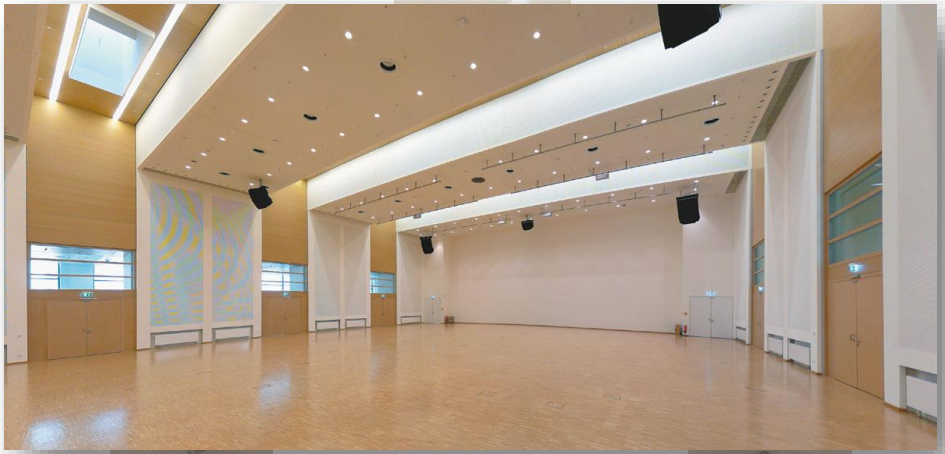
Audio System

Room Horizont– accomodates up to 1.000 people (example)



Audio Solution: Bose®
RoomMatch®
Progressive Directivity
Array

Picture source: PROSOUND

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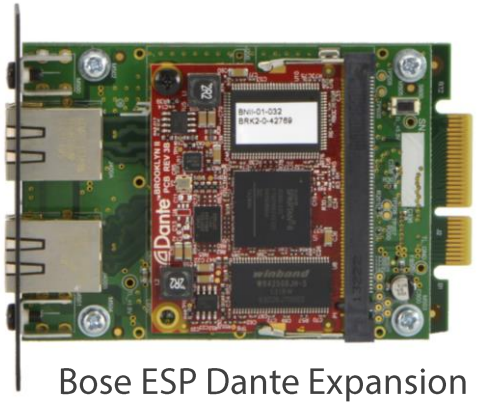
Audio System

Amps & DSP at Horizont Hall

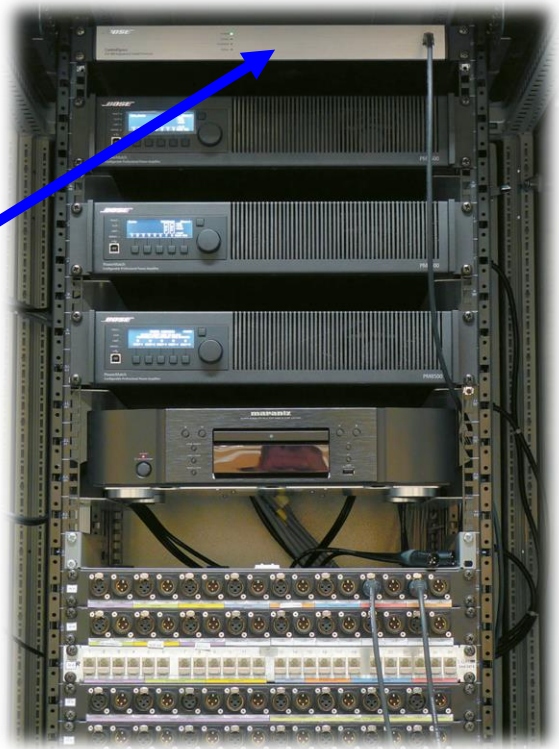
- 3x PowerMatch 8500N Amplifier powered by three 230V/16A circuits only
- powering 11x RoomMatch Module (5 Arrays)
- 1x ESP-880 Engineered Sound Prozessor



Bose ESP Dante Expansion Card
32 In x 32 Out

ControlSpace DESIGNER SOFTWARE

Dante™ SPOKEN HERE



Picture source: PROSOUND

AKG ALLEN&HEATH ATTERO TECH AuviTran Audinate BOSE BSS by HARMAN CREST AUDIO Extron Focusrite REDNET HARMAN MACKIE NEXO TOA Commercial Audio

Powersoft AUDIO RDL RENKUS-HEINZ Roland RTS SENNHEISER SHURE Soundcraft STEWART AUDIO STUDER by HARMAN Symetrix AVUE audiotechnik YAMAHA CA

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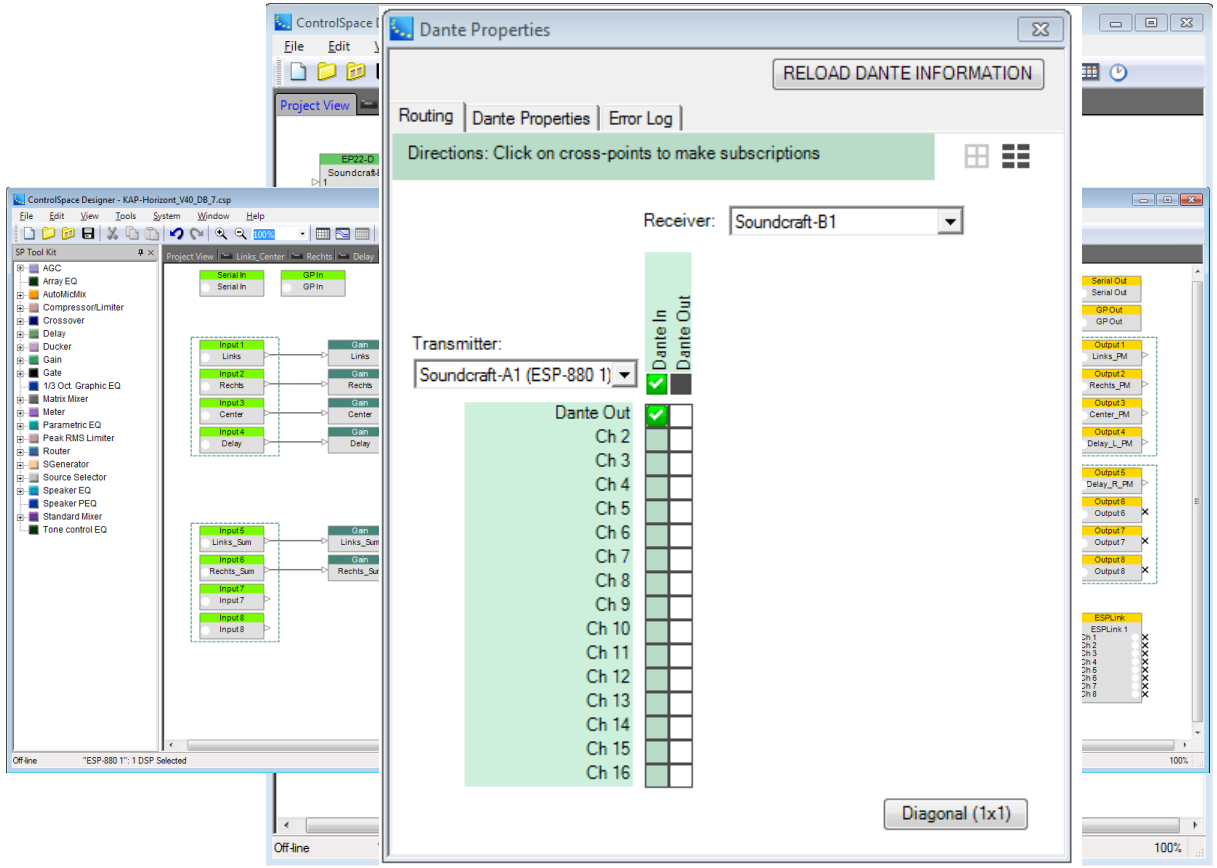
Bose ControlSpace® Designer

- Tool to configure audio signal processing and network operation of Bose DSP & Amps
- Creating fully customized signal processing
- Integrated Dante routing
- Also usable for Non-Bose Applications



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Networked Audio

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SPOKEN HERE

- Already definded during planning phase
- LAN designed for using DANTE (fiber / copper Hybrid)
- Dante ready network switches

Picture source: PROSOUND

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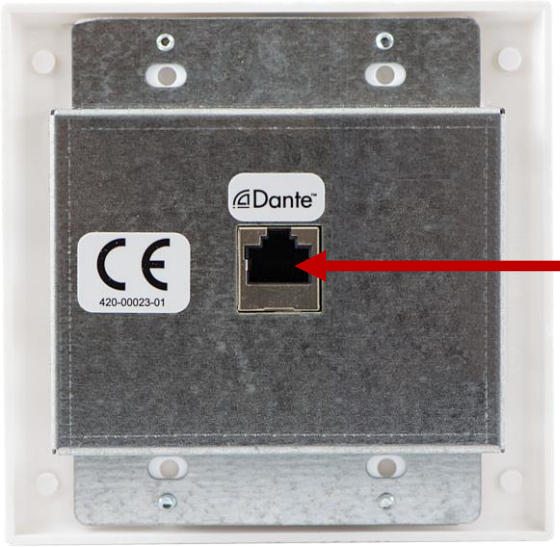
Networked Audio

Bose Dante Endpoint | 30 units available

ID indicator
to identify a specific WallPlate via ControlSpace Designer



100 Mbps Dante Ethernet RJ-45 network connection

Bose WP22BU-D

- Fits into most dual gang US junction boxes
- PoE enabled
- Communicating with Bose ControlSpace Designer Software

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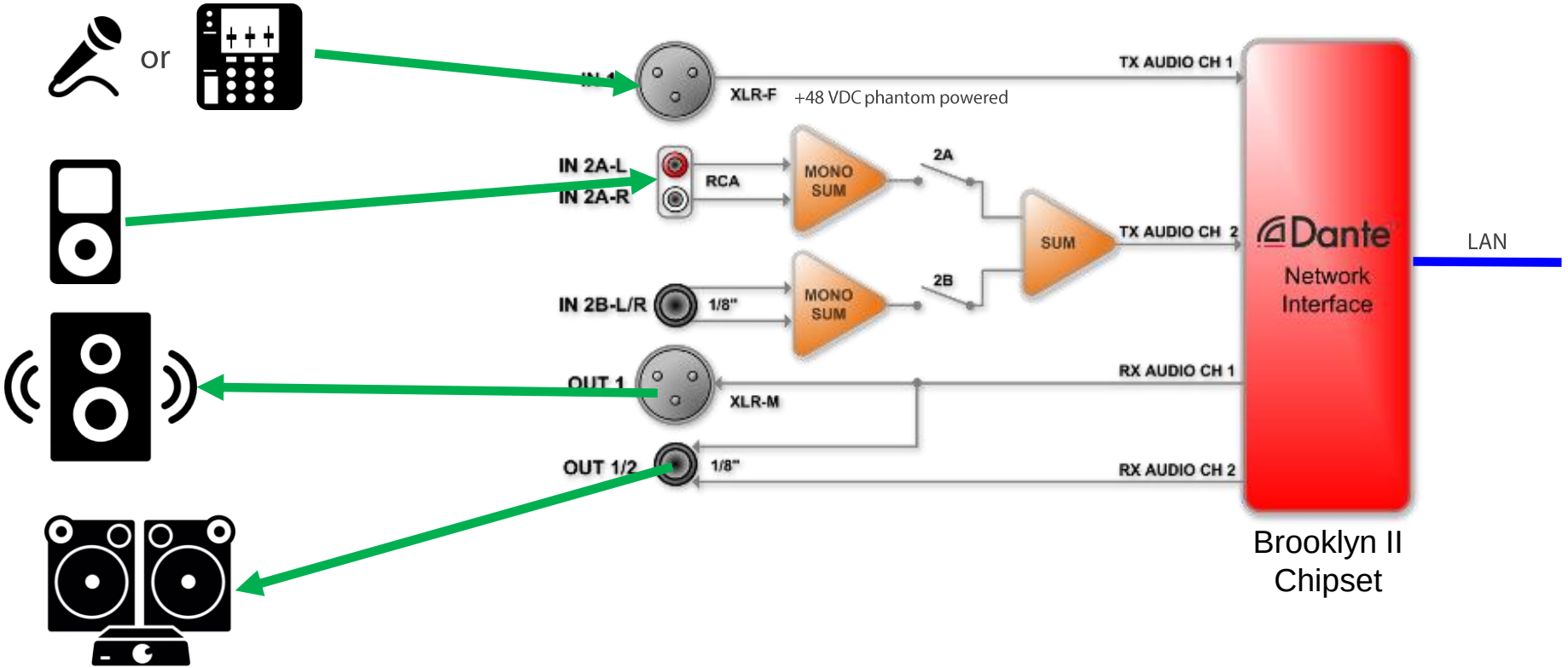
WP22BU-D Audio Flow Diagramm



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Powersoft RDL RENKUS-HEINZ Roland RTS SENNHEISER SHURE Soundcraft STEWART AUDIO STUDER Symetrix AVUE audiotechnik YAMAHA
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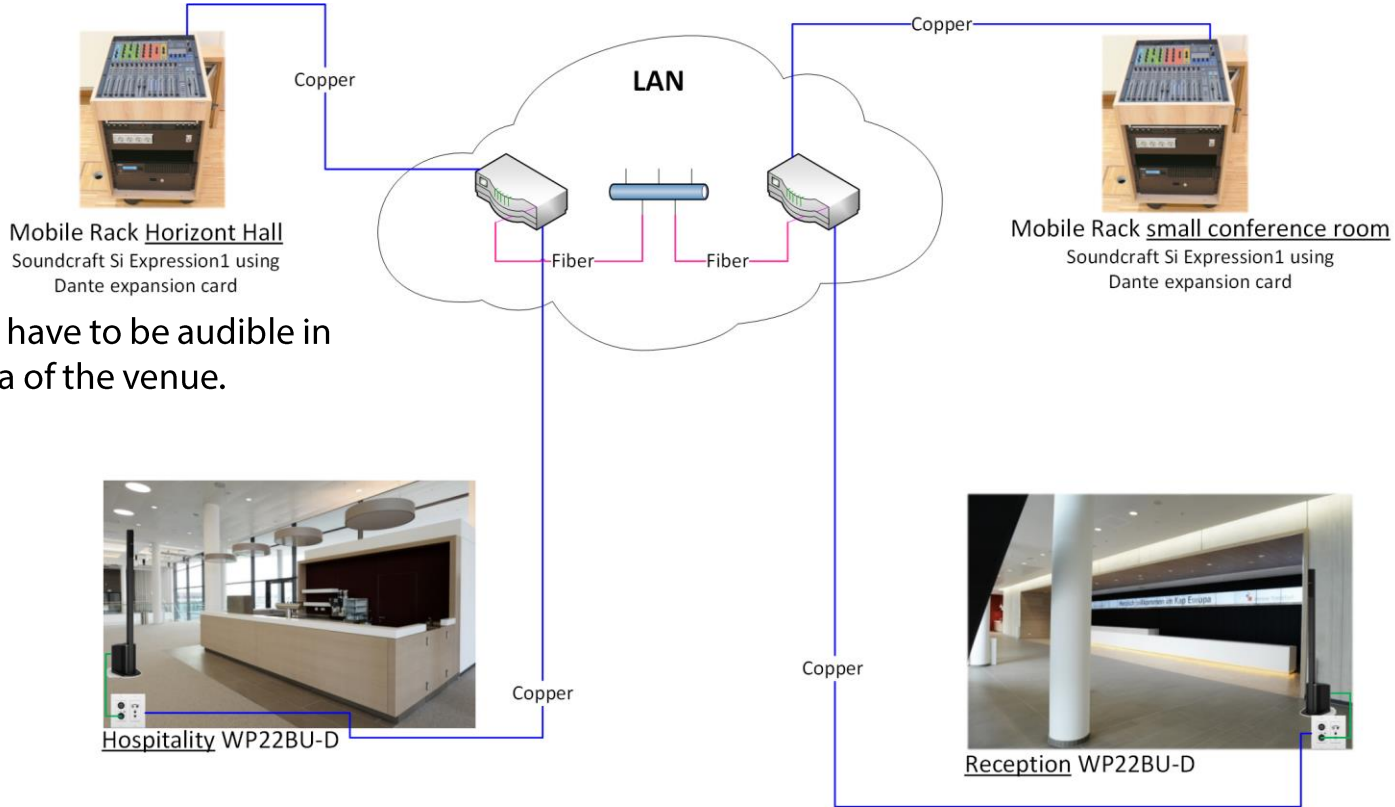
Example: shareholders meeting



All spoken words have to be audible in each room or area of the venue.

Picture source: PROSOUND
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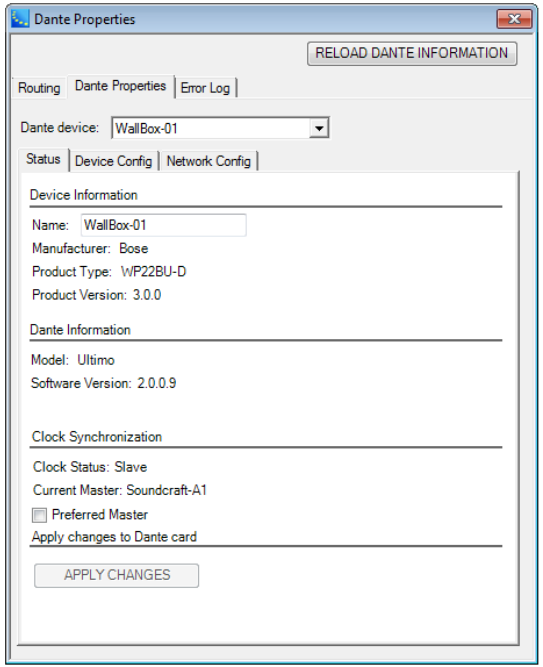
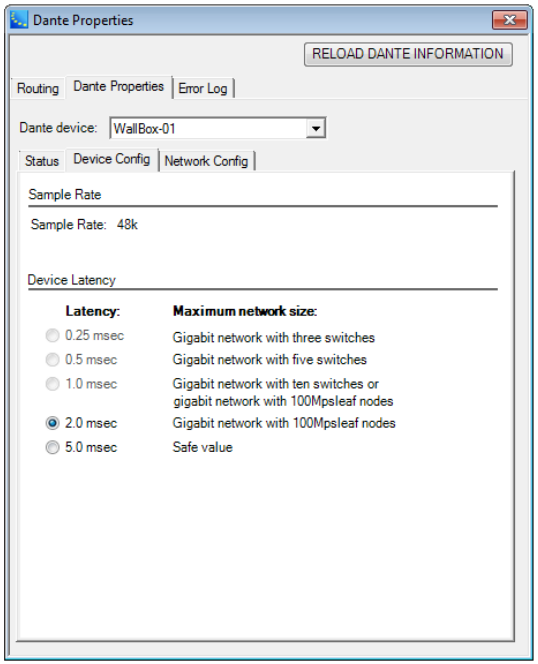
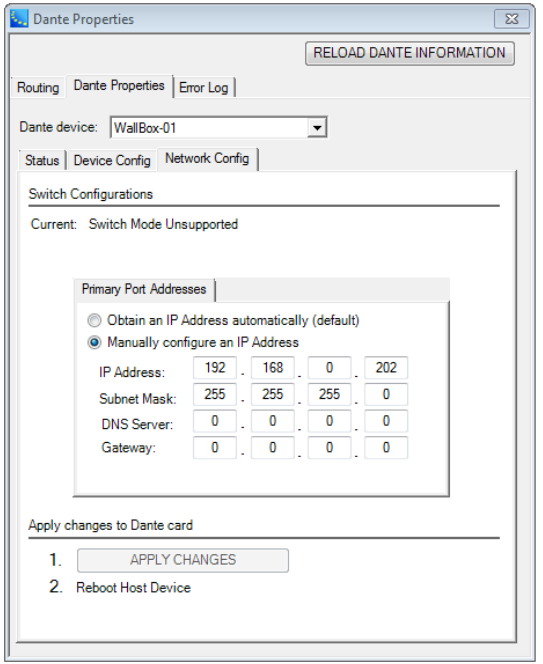
All Dante settings can be done by ControlSpace Designer Software







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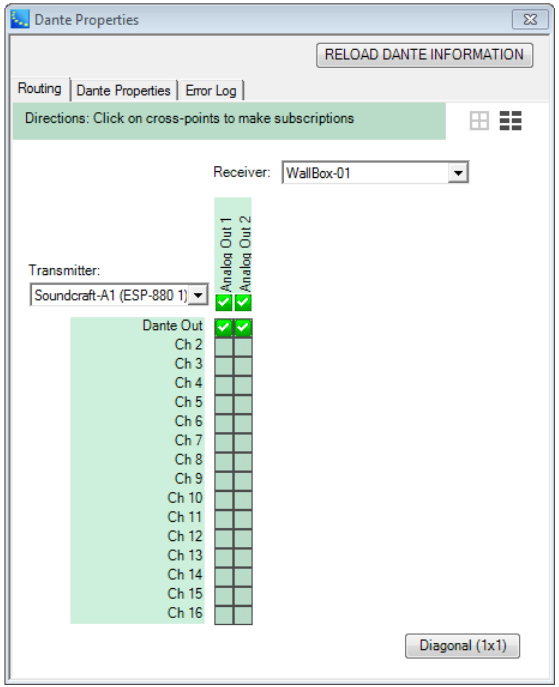

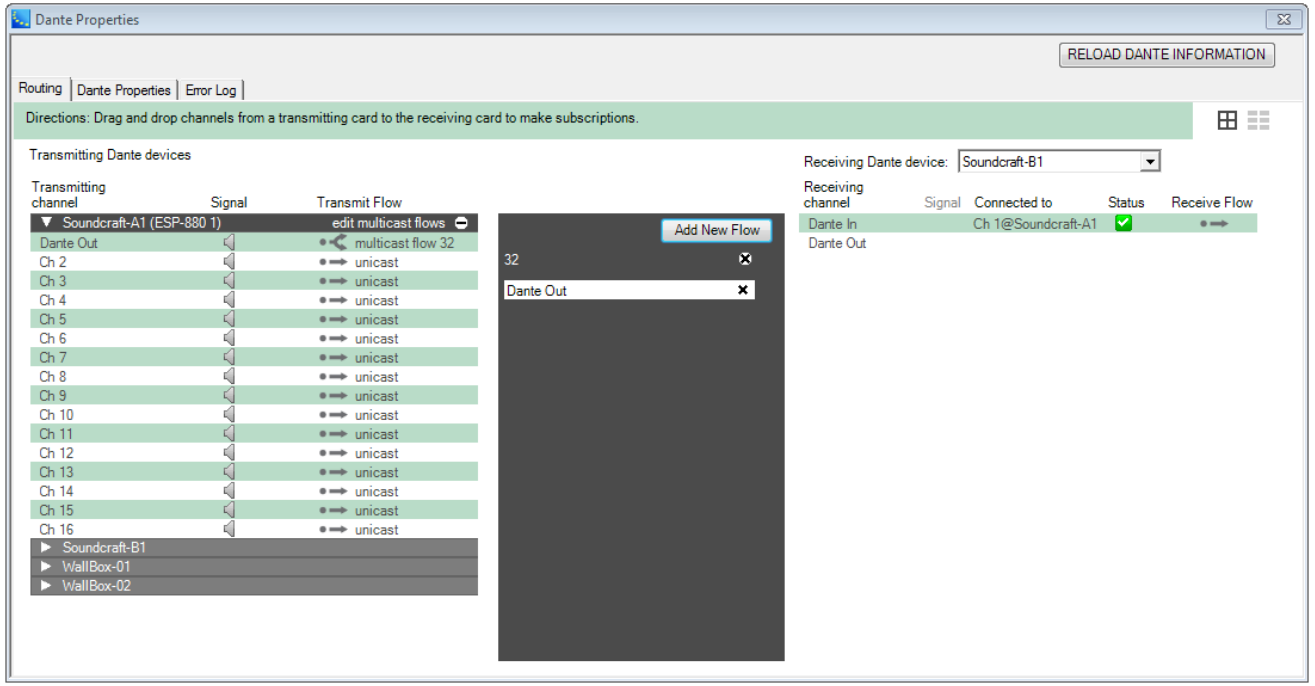

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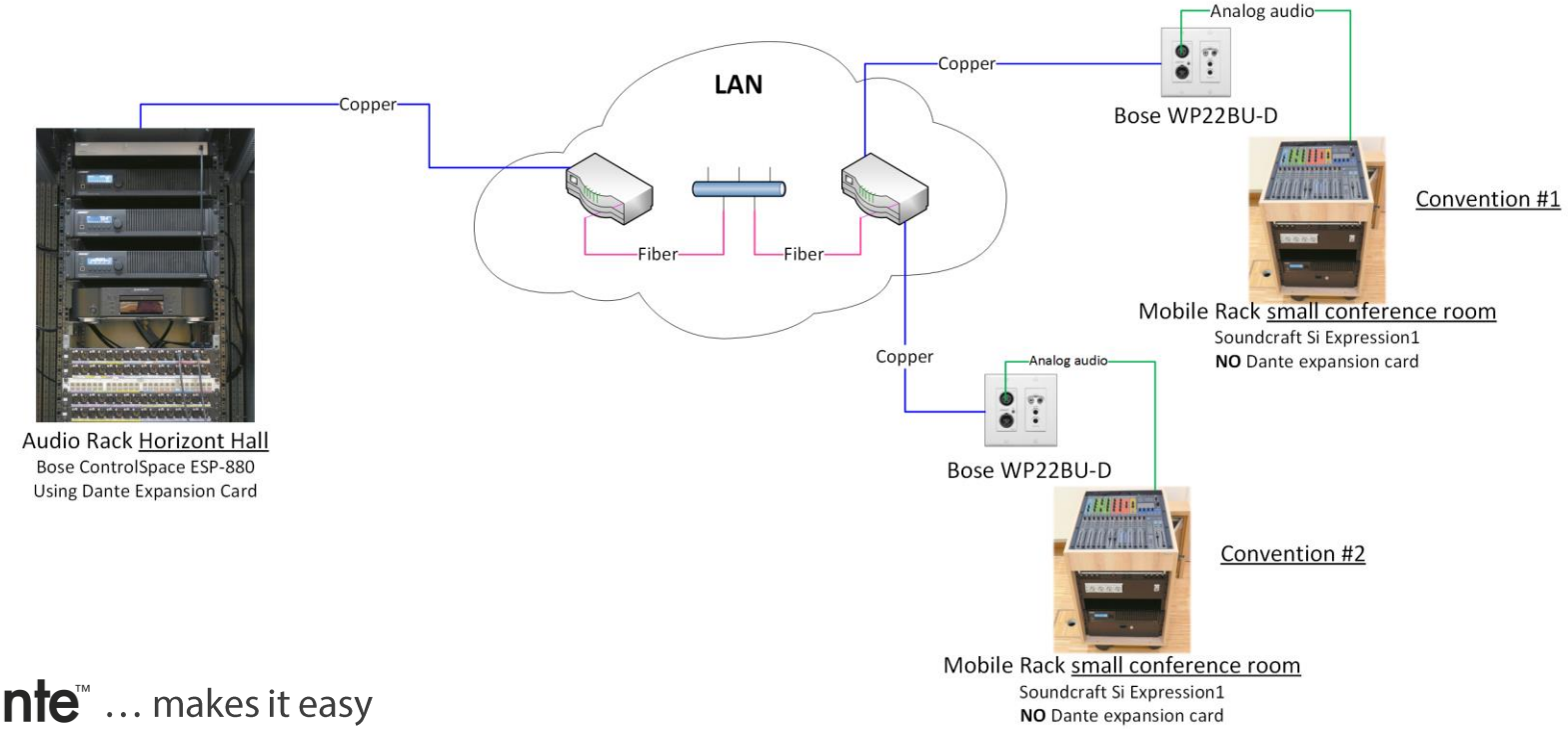
Example: Convention

paging or announcement at the conference rooms should be audible in room Horizont



Dante™ … makes it easy

Picture source: PROSOUND

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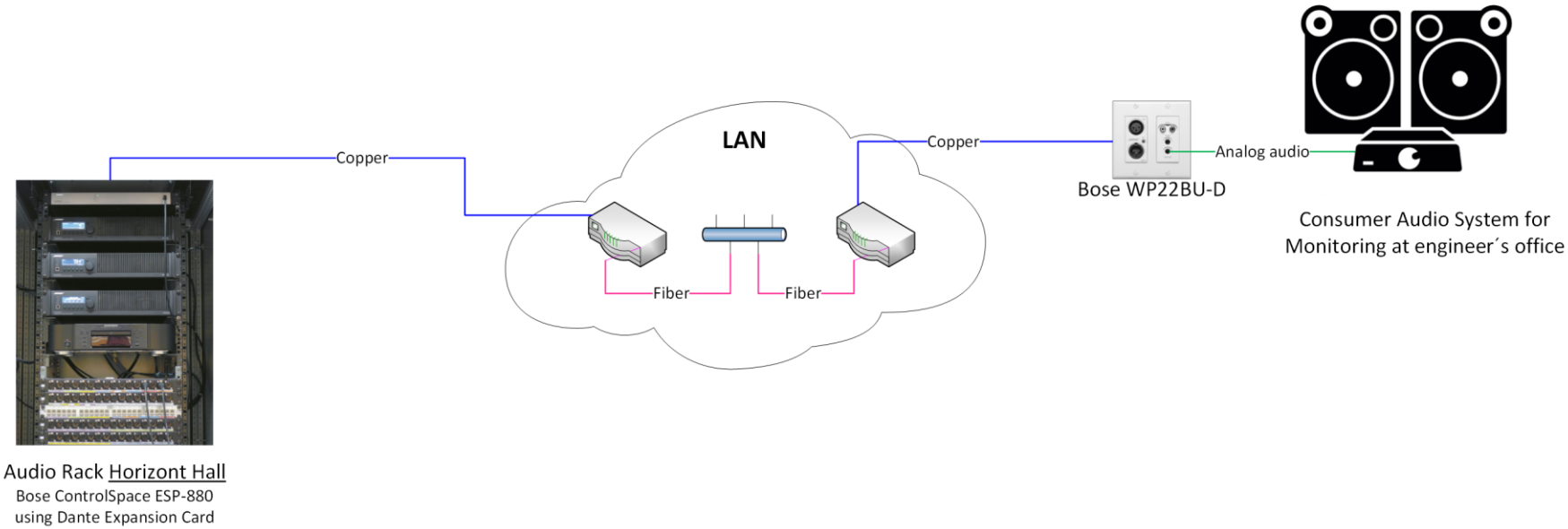
Application: Montoring at Engineer´s office



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Picture source: PROSOUND

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Thank you for your attention.

Questions?

Please visit us at Hall 7 / booth C172

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