

Rashtriya Swayamsevak Sangh (RSS), India

# Case Study

## Modernizing Boardroom for Multi-point BYOM

Rashtriya Swayamsevak Sangh, a prominent Indian volunteer organization, needed to upgrade its 16-seater boardroom. To enhance hybrid collaboration, RSS sought a versatile BYOM functionality allowing attendees to seamlessly connect personal laptops to room peripherals for efficient video conferencing across platforms like Zoom and Microsoft Teams.

### ***“Your Success, Our Focus”***

Helping our customers grow and creating value for them is at the core of Lumens’ philosophy — and that’s why your success is always our focus.

# | 1. Customer Request

## 1. How can members project their laptop screens simply by plugging in, regardless of where they sit in the room?

The organization requires a flexible BYOD presentation setup across the boardroom. Each of the table's seating positions needs a localized input connection, allowing any user to instantly share content from their personal laptop to the main display via standard plug-and-play interfaces without complex manual configuration or signal switching hassles.

## 2. How can members' personal laptops access the room's professional cameras, microphones, and speakers for remote meetings?

To elevate hybrid conferencing, the boardroom must support full BYOM functionality. Personal laptops connected to the system need direct, seamless access to high-quality room peripherals—including PTZ cameras, microphones, and loudspeakers—ensuring unified audio and video integration with unified communication software such as Microsoft Teams or Zoom.

## 3. How can these features be implemented in the simplest way to ensure effortless operation for all members?

Minimizing user friction requires an intuitive system architecture that consolidates complex AV signal routing into a single, user-friendly interface. By utilizing standardized connectivity like USB-C and automated signal distribution, participants can start meetings, share content, and manage hardware instantly without needing technical support or undergoing extensive operational training.

## 4. How can the system and hardware architecture be simplified to minimize the management burden on maintenance personnel?

To ensure long-term reliability and lower operational overhead, maintenance staff require a streamlined infrastructure. Utilizing IP-based signal distribution and single-cable connectivity reduces physical cable clutter, eliminates dedicated central switching hardware, and simplifies troubleshooting, allowing IT teams to easily monitor, update, and manage the entire AV deployment with minimal manual intervention.



## | 2. The Lumens Solution

### 1. Multi-point Access BYOD:

Deploying eight OIP-N40E Bridges provides multi-point BYOD access across 16 seats. Participants present effortlessly via local USB connection without leaving their seats. The N40E encodes video over IP to the OIP-N60D decoder across the room, which outputs seamless HDMI content onto the main display..

### 2. IP to USB Integration:

A Lumens PTZ camera VC-A53 captures all meeting participants with high clarity. Video streams over the network to the OIP-N60D decoder, which unifies camera and microphone feeds. It converts these AV streams into USB signals, routing them directly to laptops for hybrid video conferencing.

### 3. Single Cable BYOM:

A single USB-C cable enables simultaneous content sharing and full control of in-room AV equipment. During remote meetings, incoming far-end audio is routed back through the same USB-C link directly to the room's speakers for clear, amplified sound output.

## | 3. Customer Feedback

### 1. User Experience:

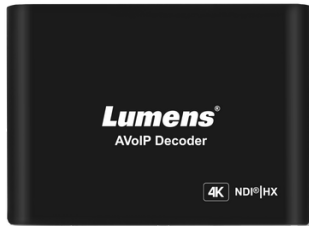
"The new setup has completely transformed our hybrid meetings. Regardless of where we sit at the 16-seater table, connecting a single USB-C cable gives us instant screen sharing and full access to the room's high-definition camera and crystal-clear audio. We no longer waste time battling cables or configuring software settings on Zoom and Teams."

### 2. IT & Management Benefits:

"From an AV and IT administration standpoint, this architecture is exceptionally clean and reliable. By routing signals via NDI/IP through the Lumens OIP bridges, we eliminated central switcher hardware and messy table cabling. System troubleshooting and maintenance are drastically simplified, lowering our daily operational burden while maintaining seamless multi-point performance."



## 4. Products

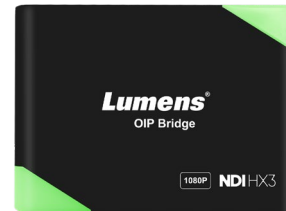


### **OIP-N60D**

**AV over IP and NDI HX3  
4K OIP Bridge**

#### **1. The Gateway to Hybrid Meeting**

Enables instant video conferencing by delivering high-quality video and audio directly to Zoom or Teams over a single cable, creating a seamless and stable connection for hybrid Meetings.



### **OIP-N40E**

**Video to IP/ NDI HX3  
HD OIP Bridge**

#### **2. “Single-Cable, Multi-media Bridge”**

Positioned across the table, it provides accessible connection points for two-way USB bridging, while encoding local HDMI input into low-latency IP streams for projection.



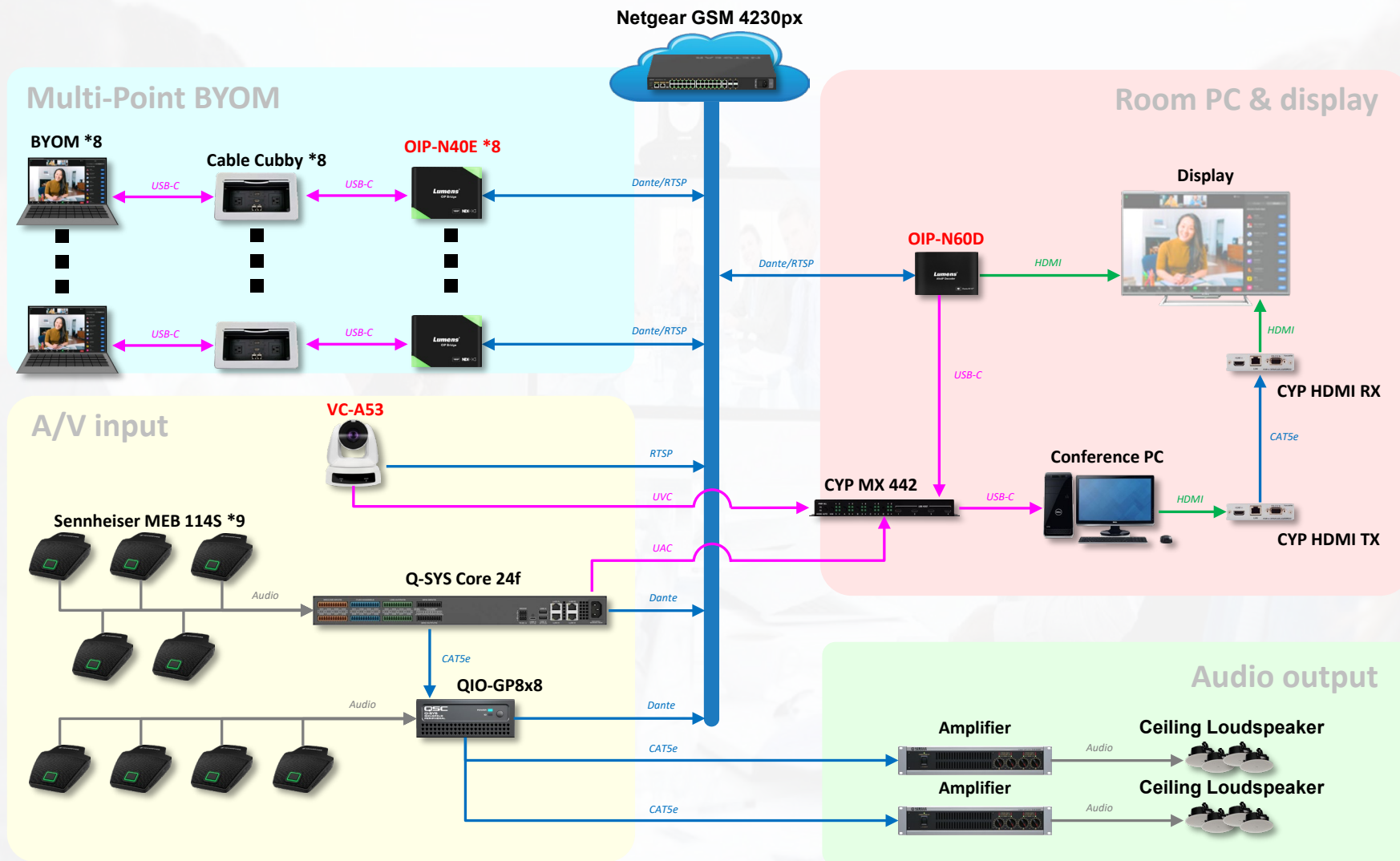
### **VC-A53**

**Full HD PTZ IP Camera**

#### **3. High-Definition Visual Capture Engine**

Strategically positioned in the boardroom, it captures crystal-clear footage of all participants, focusing on speakers while transmitting high-quality video over IP to deliver professional hybrid meetings.

# 5. Solution Architecture



## | 6. Contact us



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### ProAV Lab Blog

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### Lumens YouTube

Provides product introductions, tutorials, and customer success videos.

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