Bureau of Legislative Research
BLR-240001 Audio-Visual System Presentation

TFS Company Overview:

- Founded in 1990 as a Broadcast Engineering Service
- Provide engineering services to local and national clients
- Worked at Super Bowls, NBA, Final Four, Stanley Cup, NASCAR
- Last 20 years moved into professional A/V systems
- Always focused on understanding the latest tech and proper implementation.

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Audio-Visual Project Overview

- **Committee Rooms A and B In-Room Audio and Video**
  - Audio and Video Upgrades with IP backbone; NDI and Dante
  - All new member and witness mic systems
  - Ceiling speaker upgrades with speakers in mic base-stations
  - In-room 4K camera upgrade for live-streaming
  - In-room computer presentation and displays upgrade
  - Interoperability between rooms with flexible IP based system
  - Simple work-flow for consistent and reliable functionality

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Audio-Visual Project Overview - continued

- <u>Committee Rooms A and B Video Control Room</u>
  - Audio and Video Upgrades with IP backbone; NDI and Dante
  - New production switcher systems with NDI
  - Camera control systems with member position presets
  - Interoperability between rooms with flexible IP based system
  - Simple work-flow for consistent and reliable functionality
  - Network storage system for video recording/playback

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Audio-Visual Project Overview - continued

- **Conference Room A and B**
  - Audio and Video Upgrades with IP backbone; NDI and Dante
  - Wireless presentation system
  - Zoom and Teams Support
  - Interactive touch presentation display and auto-tracking PTZ
  - Interoperability between rooms with flexible IP based system
  - Simple work-flow for consistent and reliable functionality
  - Access to Committee Rooms Audio and Video

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Audio-Visual Project Overview - continued

- <u>4th Floor Offices and Lobby/Hallways</u>
  - Audio and Video Upgrades with IP backbone; NDI and Dante
  - Access to both Committee Rooms Audio and Video
  - 4th floor IP based distribution system, with SDI over fiber
  - Wall mounted audio control with zone selection for speakers
  - Interoperability between rooms with flexible IP based system
  - Simple work-flow for consistent and reliable functionality

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Audio-Visual Project Overview - continued

- **Network and Control**
  - Full IP backbone with 10Gb Ethernet over Fiber
    - NDI Video/Audio/Control
    - Dante Audio
    - IP Based control for A/V equipment
    - Single-mode fiber infrastructure allows easy upgrades moving into the future

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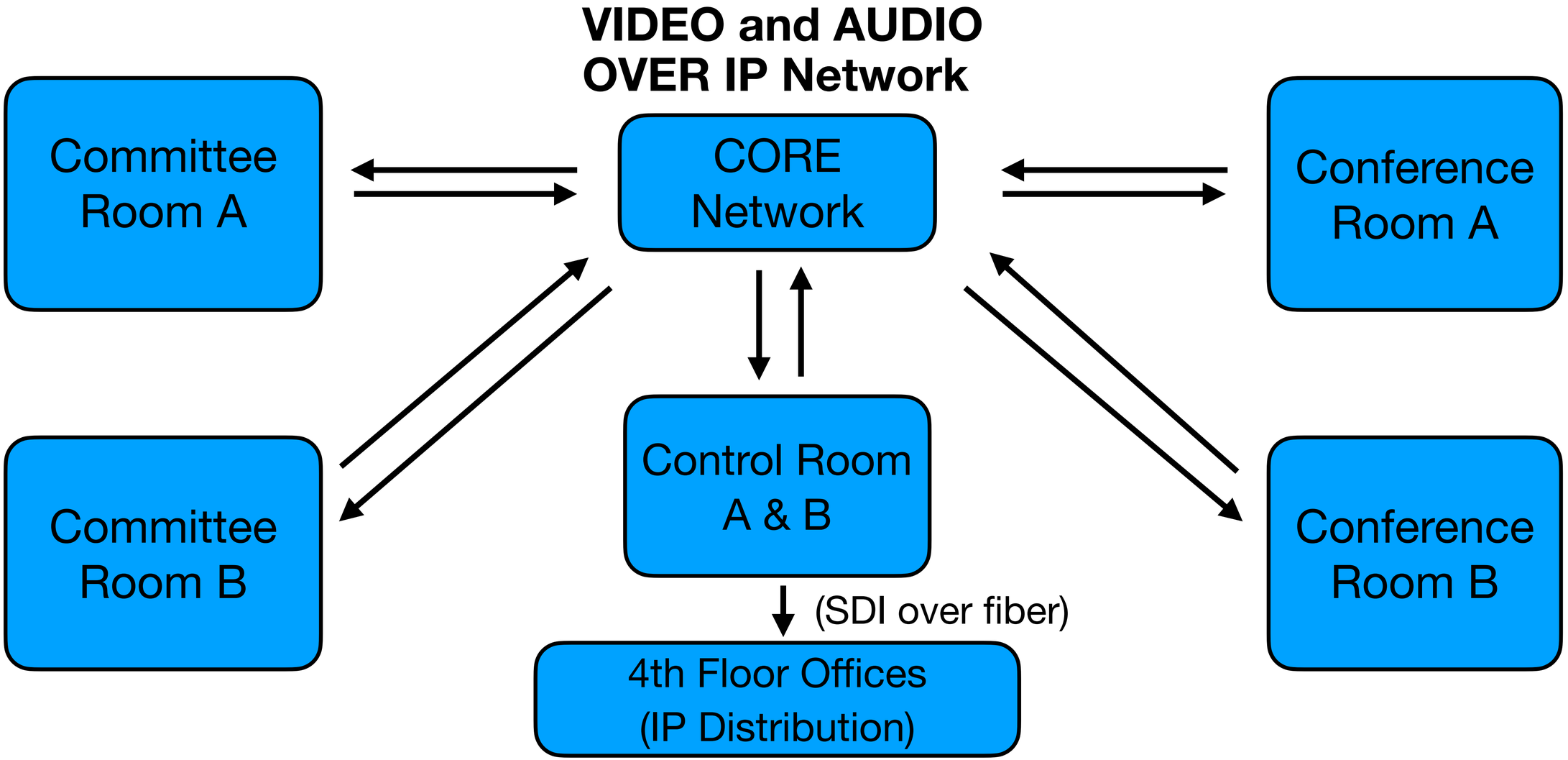
Basic Signal Flow



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Audio-Visual Project Conclusion

- A/V System upgrade to IP backbone
- Computer presentation and video distribution in-room update
- In-room audio; new mics, ceiling speakers and control system
- 4K PTZ cameras and IP based production for live-streaming
- Video recording/playback to network storage
- Project timeline expected to be 12-14 weeks, main committee rooms expected to take 6-8 weeks, remaining time for all other areas 4-6 weeks.
- TFS is local and has years of experience in the industry
- We take a hands on approach to every project

Thank You for your time and attention