

Overview of Legislature's Proposed Audio Streaming Pilot Project

Updated as of February 10, 2015

Objective of Pilot Project:

Implement real-time audio streaming of Committee proceedings from four Committee rooms in a way that provides the ability to measure and track usage of this service over the life of the pilot so that the LCC is able to make data-driven decisions regarding future streaming services.

Costs

▪ Upfront hardware/software	\$ 43,000.
▪ Operations and Maintenance for Year 1	\$ 34,000.
▪ Operations and Maintenance for Year 2	<u>\$ 34,000.</u>
Total Cost of Pilot over Two Years	<u>\$ 111,000</u>

What Is Included

- Capability to stream audio from four (4) specific Committee rooms¹
- Audio streaming “as is” from the existing audio systems in the Committee rooms
- Access to archived recordings of Committee meeting audio streams via “cloud services”
- Access to these real-time and archived audio streams from anywhere via the internet
- PC software-based “start audio stream” and “stop audio stream” capabilities
- Simple, static integration of access to audio streaming and KLISS
- Monitoring, measuring, and reporting on usage of real time streaming and archived content

What Is Not Included

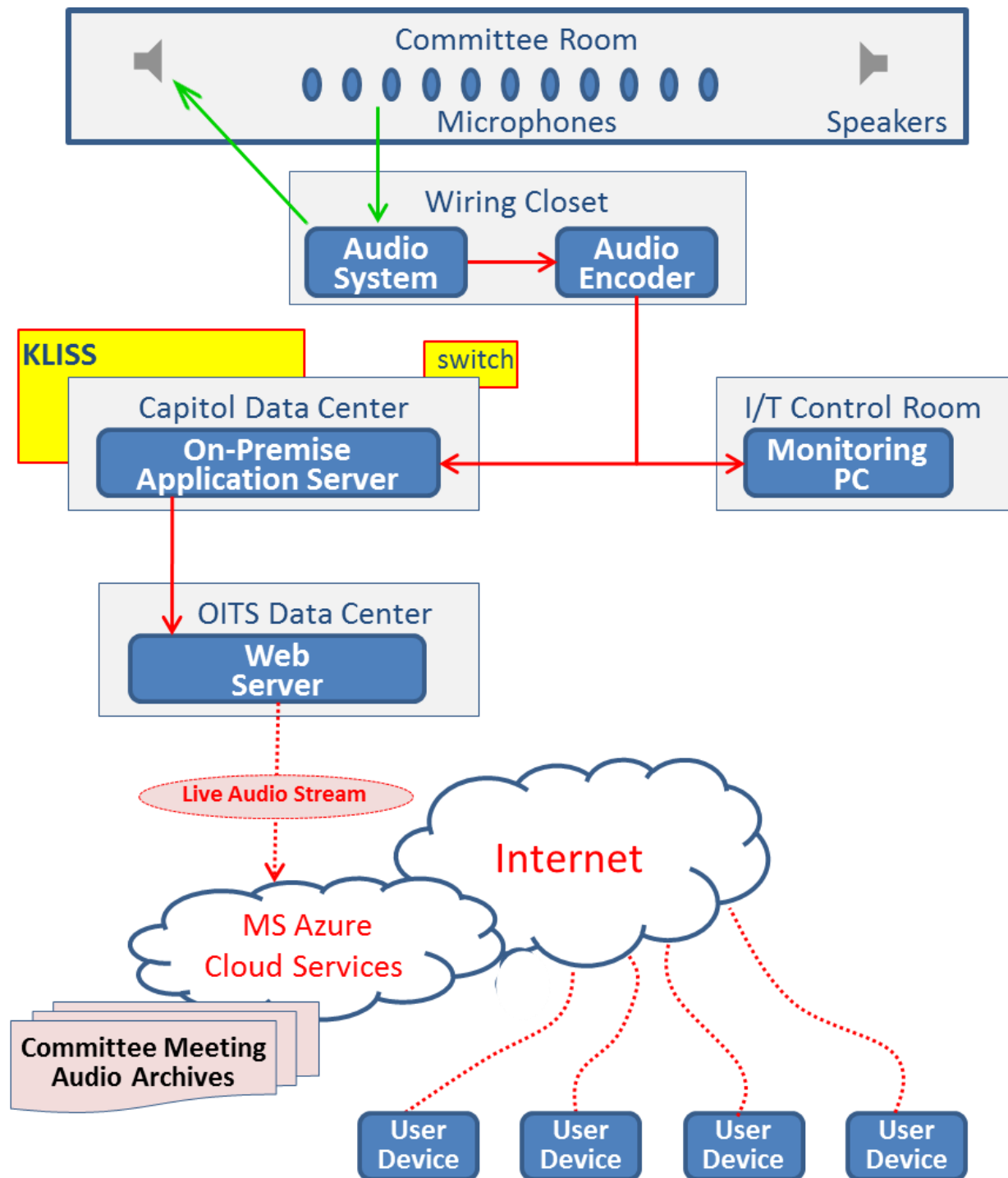
- Indexing or tagging of content in real-time or archived streams, e.g., speaker, subject, etc.
- Transcription² of real-time or archived streams (audio content converted to readable text)
- Dynamic integration of audio streaming and KLISS

¹ The LCC will select the rooms included in the pilot with the objective of using rooms which present a potential for high citizen interest, e.g., rooms such as: 112-N House Appropriations, 144-S Senate Fed & State (also Education), 346-S Old Supreme Courtroom, 548-S Senate Ways and Means, etc.

² The act of archiving audio files will likely create pressure to provide access to these files by those with hearing challenges. The legal requirement is unclear (federal ADA law) but most states which are currently archiving audio or video of meetings are not providing transcription services. Providing accurate transcriptions will be very costly – a quick scan of services indicates costs that vary from \$100 to \$200 per hour of transcribed content.

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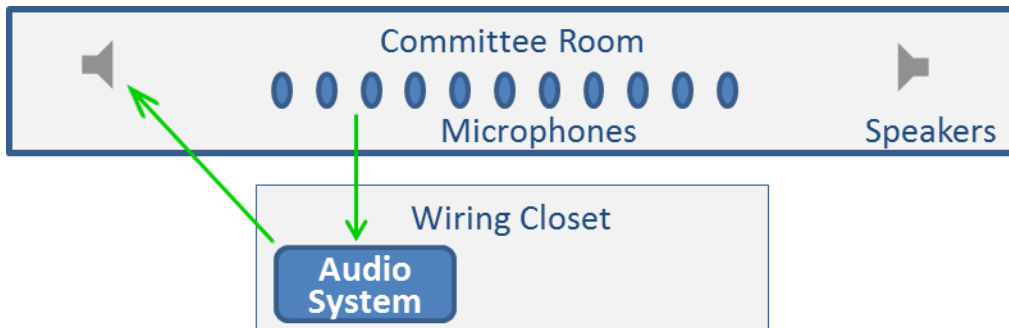
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Note: Solid red lines are local area network connections.
Dotted red lines are connections over the internet.

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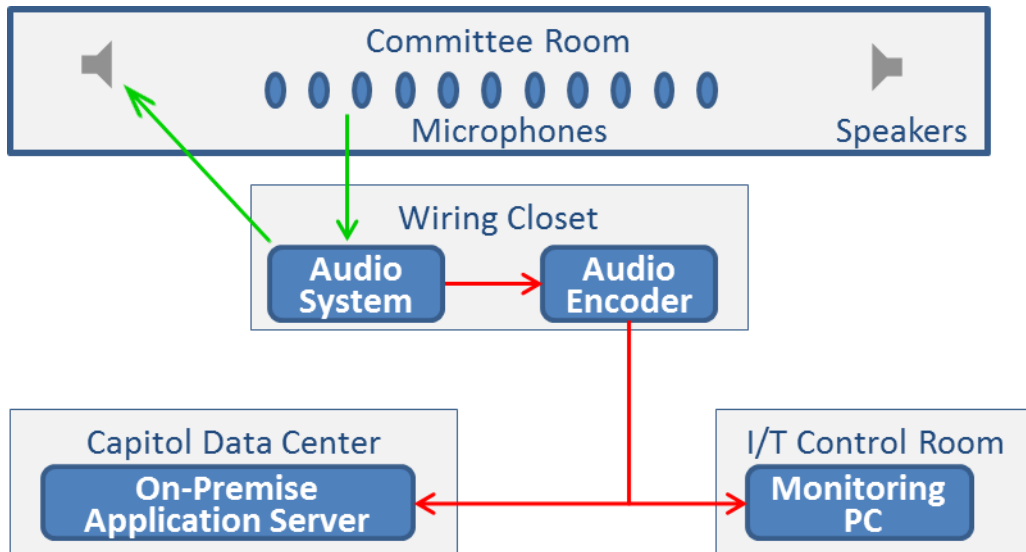


Assumptions:

1. Utilize existing audio systems in the four Committee rooms selected for the Audio Streaming Pilot Project
2. Audio streaming will be provided “as is” from the existing Committee room audio systems. With audio-only streaming there is no requirement for process change as the audio stream will reflect the actual conversation received by the audio system (including those situations where multiple speakers are talking into their active mics concurrently).

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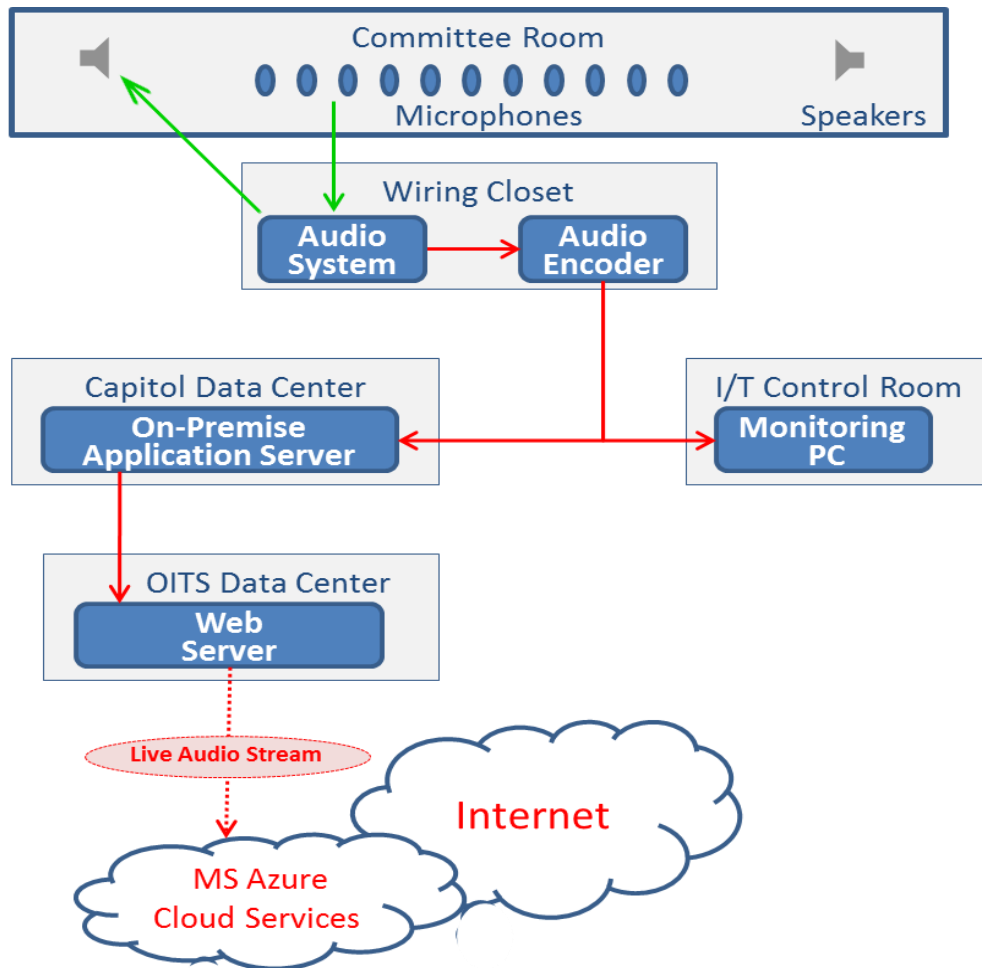




Equipment Required On Site:

1. Audio Encoder for each room to accept audio stream.
2. Application Server to manage audio stream.
3. Monitoring PC and 2 Displays.

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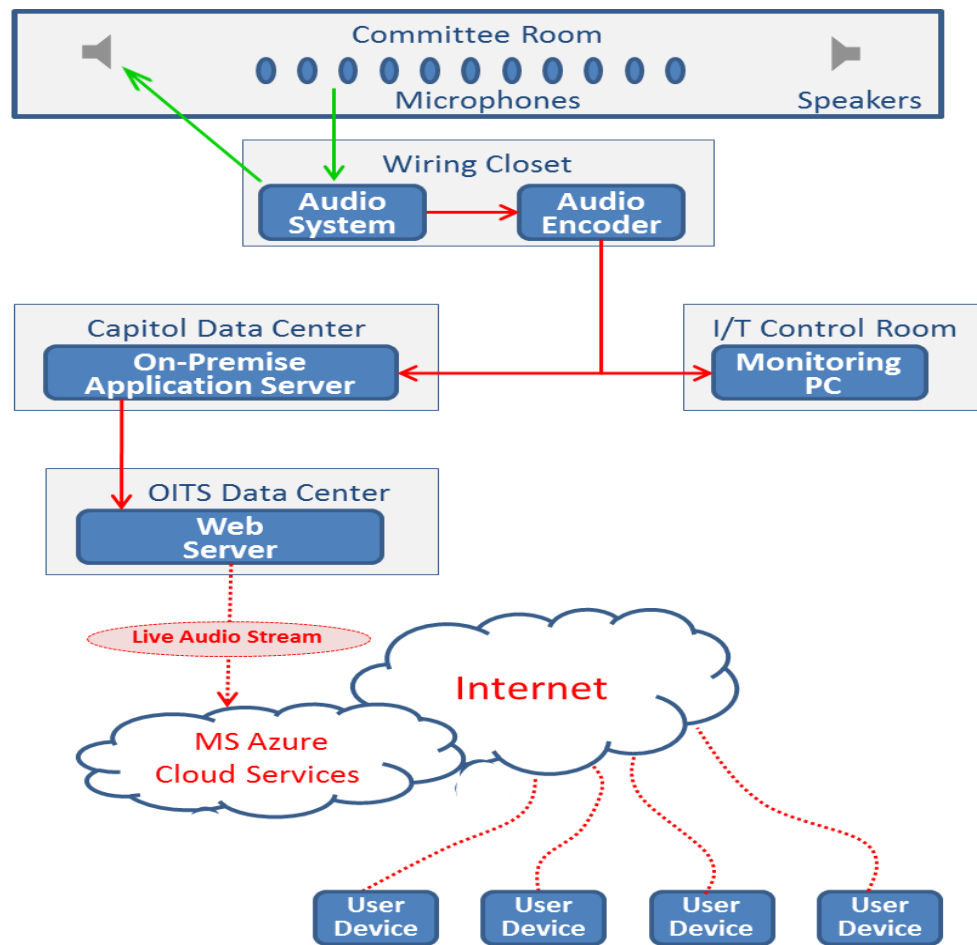
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Config Required to Provide Live Audio Streams on the Internet:

1. Pass audio stream to OITS Web Server
2. OITS Web Server directs live audio stream to MS Azure Cloud Services

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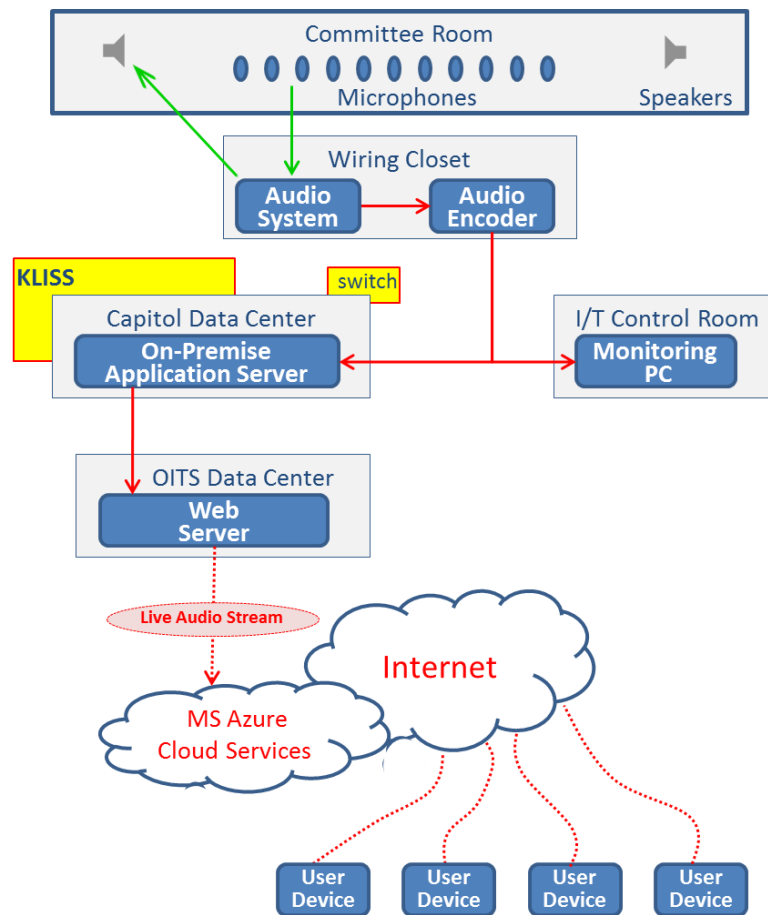
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Users to Access Live Audio Streams on the Internet:

1. MS Azure Cloud Services hosts the live audio streams.
2. Legislature provides access to and communicates web site addresses for live audio streaming (each room will have its own unique address).
3. Users click on the link provided or type address (URL) into their devices' browser and are connected to the live audio stream.

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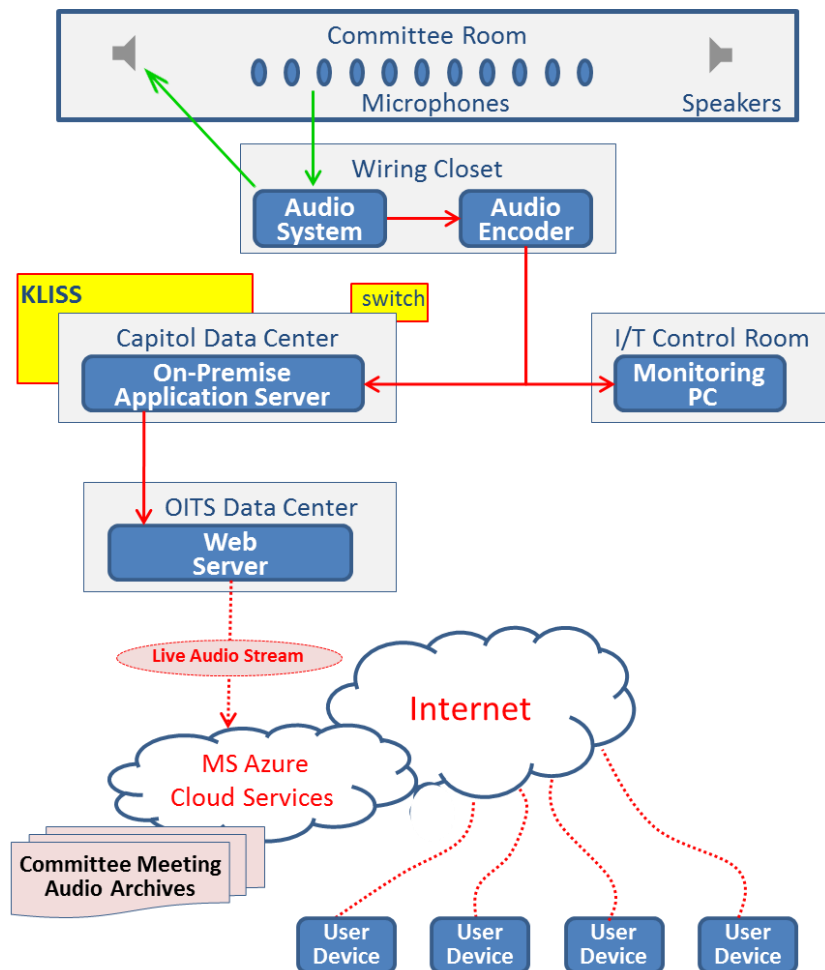
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Software Development Required:

1. Simple/basic integration with KLISS and the KLISS Committee System module for the relevant Committees. This integration will provide links embedded within KLISS homepage and relevant Committee System pages that will redirect the user's browser to the live audio streaming site.
2. On/Off Switch. This audio streaming pilot project will include software-based on/off switch functionality. In the event that the chair wants to terminate the streaming of audio from the meeting, someone (likely a staff member) will need to access a secured software application and input instructions to end audio streaming for that meeting.

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Archiving and Measuring Usage:

1. Accessible archiving of audio files.
Either of the two likely vendors for this effort will provide the ability to archive the audio streams from our Committee meetings and enable access to those audio files via the internet. These audio archives will be “simple” recordings of the meetings and will not provide indexing or tagging of content within the files. These contents of these files will not be transcribed.
2. Monitoring, measuring, and reporting on usage of real time streaming and archived content.
The vendor selected to provide audio streaming services must have the ability to monitor, measure, and report on usage, i.e., how many visits to each meeting, length of stay/connection for each visit to a meeting, number of visits and duration of access to archived meetings, etc...