802 LMSC Workshop Follow-Up Hybrid Meeting Technology Complaints Improvement Opportunities

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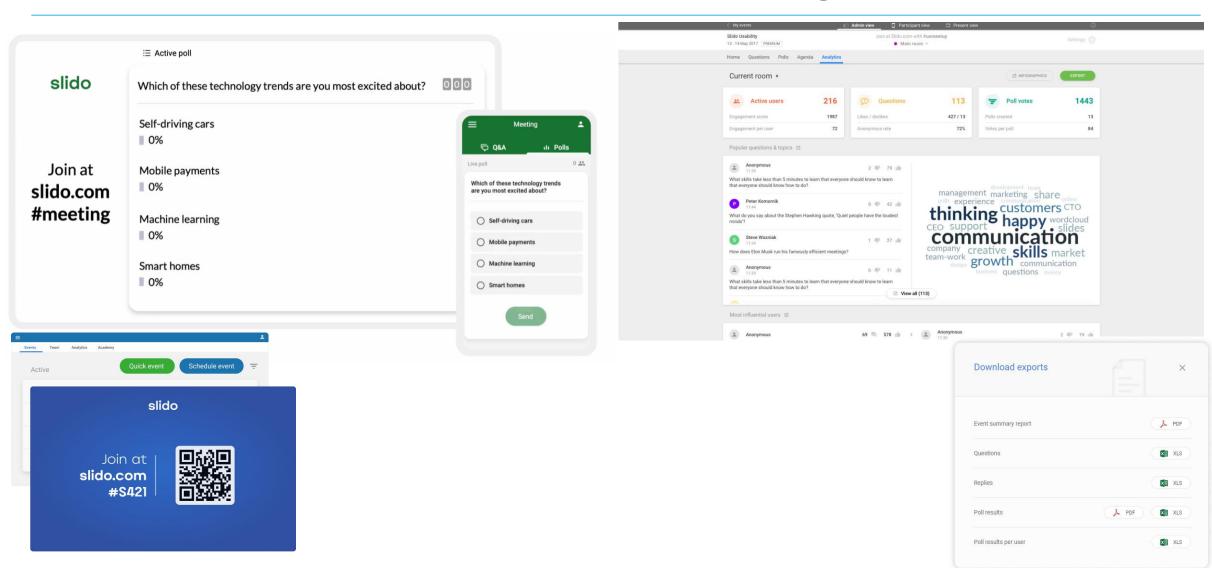
Agenda

- Straw Poll Challenges
- Meeting Attendee Experience
- Meeting Platform Hardware

STRAW POLL CHALLENGES

Background

- Cisco / WebEx acquired Slido and removed WebEx Poll
- Slido requires a per-user license to use Slido with > 100 participants
 - WG/TG WebEx meetings that are scheduled by one person not in attendance cannot reliably use Slido for straw polls

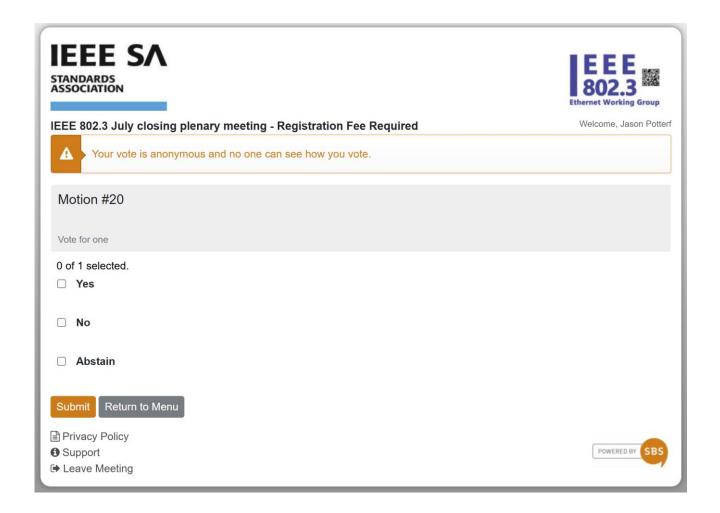


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Paths Forward

- 1. Issue IEEE SA WebEx accounts to all WG/TG chairs
 - Gives each chair access to Slido
 - Enables more advanced straw poll interactions
 - Removes dependency on volunteers' meeting platforms
 - Allows IEEE SA to manage platform settings consistently
 - No cost to 802 provided by IEEE SA
 - Participants do not require an account, uses per-session shared credentials / QR codes or WebEx meeting integration

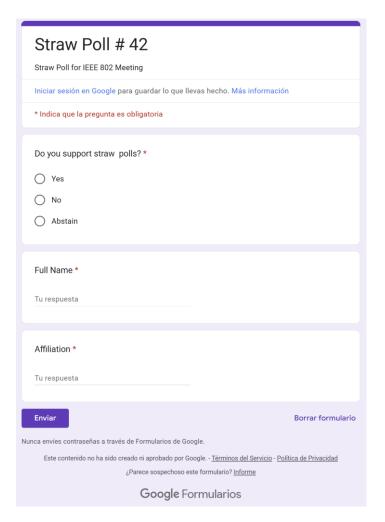


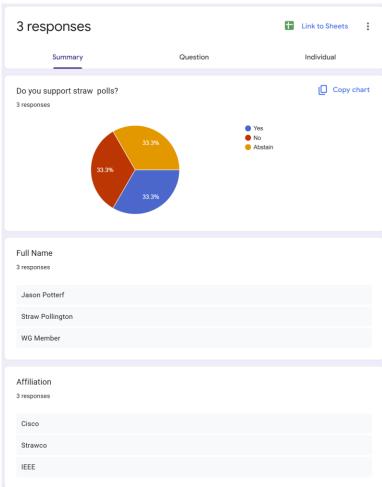
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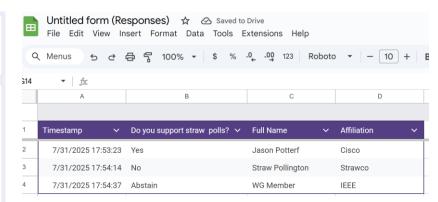
Paths Forward

- 2. Use Direct Vote Live
 - Single platform for all voting
 - Straw Poll voter list taken from registration system at hybrid meetings
 - Straw Poll list does not interfere with working group voter list
 - Requires all straw poll participants to have an IEEE account

Google Form Straw Poll







Paths Forward

- 3. Use Google Forms / Sheets
 - Available for free to all IEEE members via IEEE Google Account
 - Voters can self-report their name and affiliation in the form
 - Results data stored in IEEE Google Account and may be shared/protected easily
 - Requires post-processing to avoid improper voting as votes are anonymous by default

MEETING ATTENDEE EXPERIENCE

Meeting Attendee Experience

Group	Meeting Platform	Straw Poll Tool	Queue Management	Room Hardware Solution
802 LMSC	WebEx	None	WebEx Chat	Member Laptop
802.1	WebEx	Direct Vote Live	WebEx Chat	WG Laptop
802.3	WebEx/Zoom	Slido / Zoom Poll	WebEx Chat / Hands	WG Laptop
802.11	WebEx	Slido / Chat	WebEx Chat	Member Laptop
802.15	WebEx	Slido / Chat	WebEx Chat	Headless PC
802.18	WebEx	N/A	WebEx Chat	Chair's Laptop
802.19	WebEx	Slido / Chat	WebEx Chat	Chair's Laptop
802.24	WebEx	N/A	WebEx Chat	Chair's Laptop

Meeting Attendee Experience

Concerns

- In-Room attendees join with audio and cause feedback
- Chair requires multiple monitors to manage virtual meeting, monitor queue, etc.
- Attendees must rename themselves on joining to declare affiliation and methods vary across meeting tools
- Queue management is largely manual and uses the chat

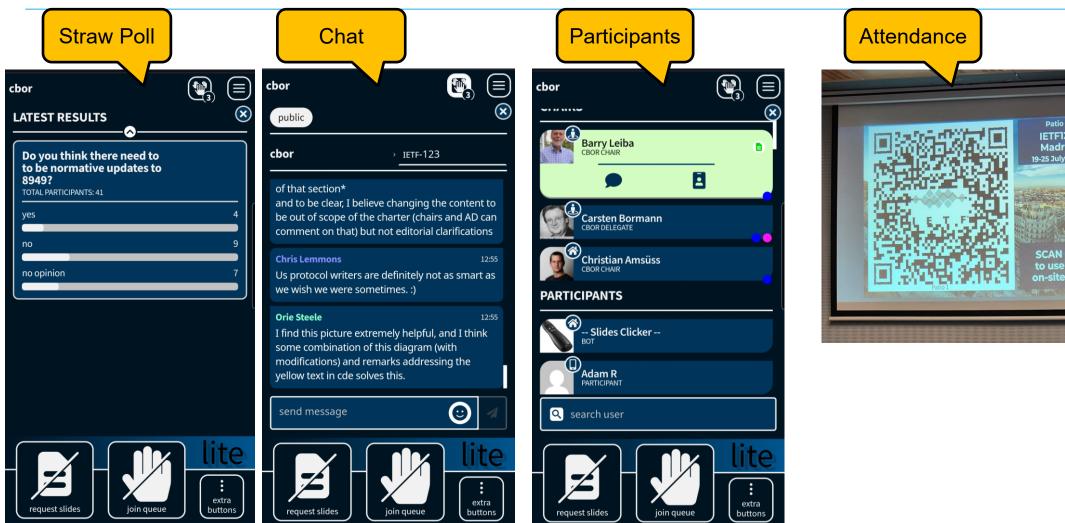
Meeting Attendee Experience

Paths Forward

- Request IEEE SA to issue a sufficient number of meeting platform accounts to address any gaps in capabilities
- Work with IEEE and LMSC/WG leaders to improve default configurations for meeting platforms
- Consider establishing a "best practice" guide to encourage consistent user experiences across meetings

IETF EXAMPLE - MEETECHO

In-Room Tool - Phone

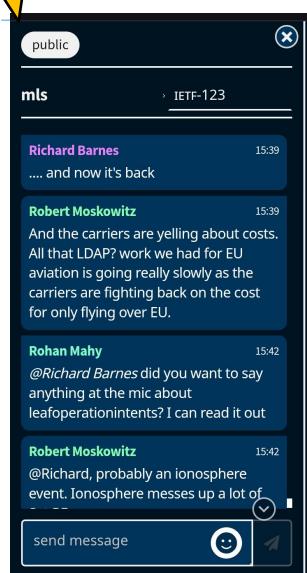




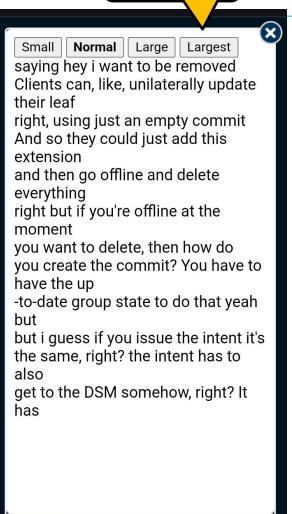
Chat

In-Room Tool - Tablet

Audio Subtitles

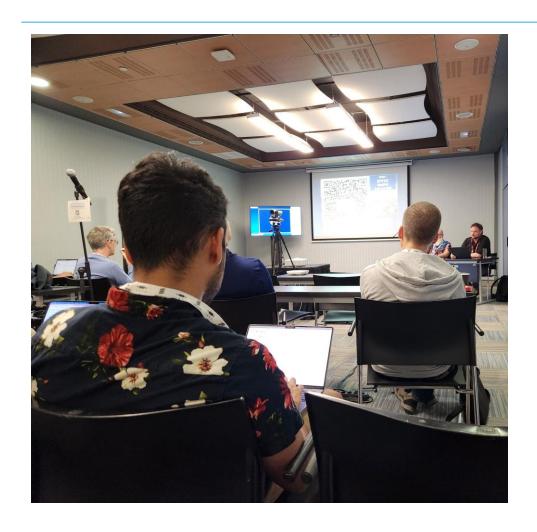


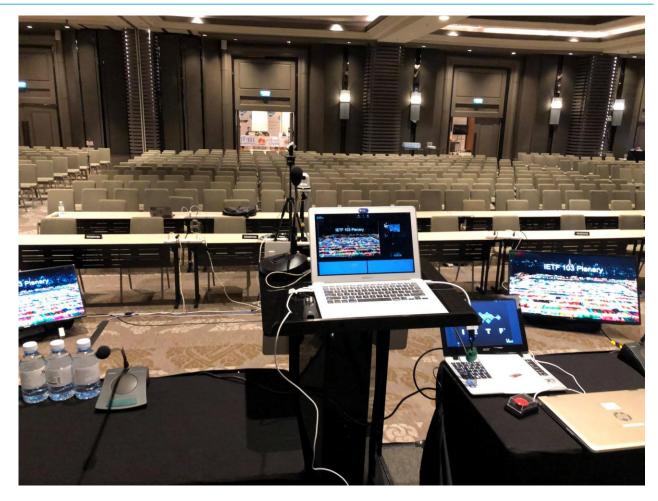




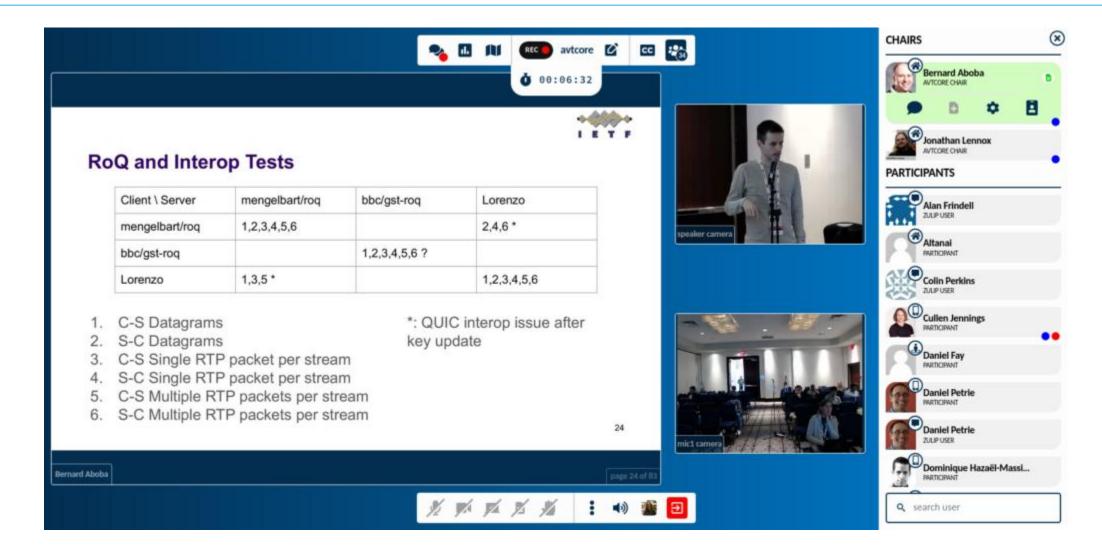
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In-Room Hardware





Remote Attendance Tool



Final Thoughts on Meetecho

Thoughts

- Video / recording features are against IEEE policy
- Previous Meetecho discussions were around a pricey, allinclusive service, but includes features we don't need
- 802 LMSC could consider a reduced complexity solution

Paths Forward

 Jason to contact IETF IT team to get more background on their solution and feasibility of adapting it to IEEE 802

MEETING PLATFORM HARDWARE

Meeting Platform Hardware Requirements

Mandatory

- User Friendly for Chairs
- Feature / Security Upgrades must be manageable by service provider unless automatic and quickly applied
- Ethernet support for Internet
- IEEE official meeting platform(s) support

Desired

- Direct HDMI input to share content in room without Internet delay
- HDMI output for projector(s) and confidence monitor
- Balanced audio input and output
- No external mouse/keyboard required
- Minimal "dongles" for connections
- Support non-IEEE meeting platforms

Laptops

- Higher cost, theft target
- Provides built-in dais display and keyboard/track pad
- Requires OS updates / patching, requires management automation to scale up
- Unfamiliar OS (Linux) or not your favorite OS (MacOS for Windows users, or vice versa) can cause meeting disruptions

Compute Bricks

- Raspberry Pi / Chrome Box / NUC
- Medium cost, medium theft risk
- OS familiarity an issue for chairs
- Keyboard and mouse are separate
- Dais monitor must be external or omitted
- Meeting platform OS support is typically second-class

Dedicated Hardware

- High cost, but low theft risk
- Provides best user experience
- Allows HDMI input to share slides / applications with no latency
- High quality audio processing
- Dais monitor must be external or omitted
- Often tied to a subset of meeting platforms

Shipping / Import / Export

- Laptops have highly restrictive import/export rules
- Dedicated meeting AV hardware is a bit easier
- 802.3 using LineSpeed to handle logistics this meeting

Paths Forward

- Nov 2025 LMSC Workship AI 5.02 (Gilb) covers finding service provider to manage meeting room hardware
- Suggest using the requirements in this presentation to guide evaluation of service provider offerings