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### In-Transit Device Conference Settings

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#### Abstract

A conferencing system disables one or more conference components for a participant that is in-transit during a conference. The conferencing system receives a request to generate a calendar entry for the conference in a timeslot and obtains conference preference information (CPI) for each participant for that timeslot. The conferencing system determines that at least one participant is in-transit during the timeslot and determines one or more conference settings based on the CPI of the participant that is in-transit and generates the calendar entry for the conference. Prior to, or during the conference, the conferencing system disables one or more conference components for the participant that is in-transit based on the one or more conference settings.

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## Background/Summary

CROSS-REFERENCE TO RELATED APPLICATION(S) [0001] This application is a continuation of U.S. patent application Ser. No. 18/461,836, filed Sep. 6, 2023, the entire disclosure of which is hereby incorporated by reference.

### FIELD

[0002] This disclosure generally relates to dynamic conference settings for devices, and, more specifically, for devices that are currently in-transit or will be in-transit at a scheduled conference time.

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## Description

### BRIEF DESCRIPTION OF THE DRAWINGS

[0003] This disclosure is best understood from the following detailed description when read in conjunction with the accompanying drawings. It is emphasized that, according to common practice, the various features of the drawings are not to-scale. On the contrary, the dimensions of the various features are arbitrarily expanded or reduced for clarity.

[0004] FIG. 1 is a block diagram of an example of an electronic computing and communications system.

[0005] FIG. 2 is a block diagram of an example internal configuration of a computing device of an electronic computing and communications system.

[0006] FIG. 3 is a block diagram of an example of a software platform implemented by an electronic computing and communications system.

[0007] FIG. 4 is a block diagram of an example of a conferencing system for delivering conferencing software services in an electronic computing and communications system.

[0008] FIG. 5A is a swim lane diagram of an example of a conferencing system configured to provide dynamic conference settings to in-transit devices.

[0009] FIG. 5B is a swim lane diagram of another example of the conferencing system shown in FIG. 5A that is configured to provide dynamic conference settings to in-transit devices.

[0010] FIG. 6 is a flowchart of an example of a method for providing dynamic conference settings to in-transit devices.

[0011] FIG. 7 is a flowchart of an example of method for reconnecting to a conference while in-transit.

### DETAILED DESCRIPTION

[0012] Conferencing software is frequently used across various industries to support video-enabled conferences between participants in multiple locations. In some cases, each of the conference participants separately connects to the conferencing software from their own remote locations. In other cases, one or more of the conference participants may be physically located in and connect to the conferencing software from a conference room or similar physical space (e.g., in an office setting) while other conference participants connect to the conferencing software from one or more remote locations. Conferencing software thus enables people to conduct video conferences without requiring them to be physically present with one another. Conferencing software may be available as a standalone software product or it may be integrated within a software platform, such as a unified communications as a service (UCaaS) platform.

[0013] With the advent of hybrid work environments, an increasing number of employees are expected to spend at least one to two days per week in the office. Requiring employees to work

from the office adds the complication of commute time, which is typically an unproductive time during the work day. Moreover, employees may not be aware of others' commute times and thus may request or require others to attend a conference while in-transit during their commute or otherwise while away from their desk (e.g., at an airport or another location that may be deemed impractical for conferencing purposes). In some cases, the in-transit employee's attendance is mandatory; however, requiring their complete participation during a conference over traditional media (e.g., via video) or using conventional controls may be unsafe or impractical.

[0014] Implementations of this disclosure address problems such as these by dynamically providing conference settings for in-transit devices connecting to a conference, such as a video conference. In particular, a conferencing system configures a timebox around a time window in which a user of a device associated with the conferencing system is, or will be, in-transit. The timebox may be associated with a conference. The timebox may be configured based on one or more user preferences so that a conference scheduled during the time window will be configured with certain features being automatically disabled. These features may include features that would be distracting or impractical to use while in-transit, such as turning video cameras on, performing a screen share, or conducting a poll that requires a typed response. By automatically disabling certain features based on the user's transit status, the conferencing system enables the user to participate in the conference while in-transit and remain productive.

[0015] To describe some implementations in greater detail, reference is first made to examples of hardware and software structures used to implement a system for dynamically configuring one or more conference settings for devices that are in-transit during a conference. FIG. 1 is a block diagram of an example of an electronic computing and communications system **100**, which can be or include a distributed computing system (e.g., a client-server computing system), a cloud computing system, a clustered computing system, or the like.

[0016] The system **100** includes one or more customers, such as customers **102A** through **102B**, which may each be a public entity, private entity, or another corporate entity or individual that purchases or otherwise uses software services, such as of a UCaaS platform provider. Each customer can include one or more clients. For example, as shown and without limitation, the customer **102A** can include clients **104A** through **104B**, and the customer **102B** can include clients **104C** through **104D**. A customer can include a customer network or domain. For example, and without limitation, the clients **104A** through **104B** can be associated or communicate with a customer network or domain for the customer **102A** and the clients **104C** through **104D** can be associated or communicate with a customer network or domain for the customer **102B**.

[0017] A client, such as one of the clients **104A** through **104D**, may be or otherwise refer to one or both of a client device or a client application. Where a client is or refers to a client device, the client can comprise a computing system, which can include one or more computing devices, such as a mobile phone, a tablet computer, a laptop computer, a notebook computer, a desktop computer, or another suitable computing device or combination of computing devices. Where a client instead is or refers to a client application, the client can be an instance of software running on a customer device (e.g., a client device or another device). In some implementations, a client can be implemented as a single physical unit or as a combination of physical units. In some implementations, a single physical unit can include multiple clients.

[0018] The system **100** can include a number of customers and/or clients or can have a configuration of customers or clients different from that generally illustrated in FIG. 1. For example, and without limitation, the system **100** can include hundreds or thousands of customers, and at least some of the customers can include or be associated with a number of clients.

[0019] The system **100** includes a datacenter **106**, which may include one or more servers. The datacenter **106** can represent a geographic location, which can include a facility, where the one or more servers are located. The system **100** can include a number of datacenters and servers or can include a configuration of datacenters and servers different from that generally illustrated in FIG. 1.

For example, and without limitation, the system **100** can include tens of datacenters, and at least some of the datacenters can include hundreds or another suitable number of servers. In some implementations, the datacenter **106** can be associated or communicate with one or more datacenter networks or domains, which can include domains other than the customer domains for the customers **102A** through **102B**.

[0020] The datacenter **106** includes servers used for implementing software services of a UCaaS platform. The datacenter **106** as generally illustrated includes an application server **108**, a database server **110**, and a telephony server **112**. The servers **108** through **112** can each be a computing system, which can include one or more computing devices, such as a desktop computer, a server computer, or another computer capable of operating as a server, or a combination thereof. A suitable number of each of the servers **108** through **112** can be implemented at the datacenter **106**. The UCaaS platform uses a multi-tenant architecture in which installations or instantiations of the servers **108** through **112** is shared amongst the customers **102A** through **102B**.

[0021] In some implementations, one or more of the servers **108** through **112** can be a non-hardware server implemented on a physical device, such as a hardware server. In some implementations, a combination of two or more of the application server **108**, the database server **110**, and the telephony server **112** can be implemented as a single hardware server or as a single non-hardware server implemented on a single hardware server. In some implementations, the datacenter **106** can include servers other than or in addition to the servers **108** through **112**, for example, a media server, a proxy server, or a web server.

[0022] The application server **108** runs web-based software services deliverable to a client, such as one of the clients **104A** through **104D**. As described above, the software services may be of a UCaaS platform. For example, the application server **108** can implement all or a portion of a UCaaS platform, including conferencing software, messaging software, and/or other intra-party or inter-party communications software. The application server **108** may, for example, be or include a unitary Java Virtual Machine (JVM).

[0023] In some implementations, the application server **108** can include an application node, which can be a process executed on the application server **108**. For example, and without limitation, the application node can be executed in order to deliver software services to a client, such as one of the clients **104A** through **104D**, as part of a software application. The application node can be implemented using processing threads, virtual machine instantiations, or other computing features of the application server **108**. In some such implementations, the application server **108** can include a suitable number of application nodes, depending upon a system load or other characteristics associated with the application server **108**. For example, and without limitation, the application server **108** can include two or more nodes forming a node cluster. In some such implementations, the application nodes implemented on a single application server **108** can run on different hardware servers.

[0024] The database server **110** stores, manages, or otherwise provides data for delivering software services of the application server **108** to a client, such as one of the clients **104A** through **104D**. In particular, the database server **110** may implement one or more databases, tables, or other information sources suitable for use with a software application implemented using the application server **108**. The database server **110** may include a data storage unit accessible by software executed on the application server **108**. A database implemented by the database server **110** may be a relational database management system (RDBMS), an object database, an XML database, a configuration management database (CMDB), a management information base (MIB), one or more flat files, other suitable non-transient storage mechanisms, or a combination thereof. The system **100** can include one or more database servers, in which each database server can include one, two, three, or another suitable number of databases configured as or comprising a suitable database type or combination thereof.

[0025] In some implementations, one or more databases, tables, other suitable information sources,

or portions or combinations thereof may be stored, managed, or otherwise provided by one or more of the elements of the system **100** other than the database server **110**, for example, the client **104** or the application server **108**.

[0026] The telephony server **112** enables network-based telephony and web communications from and/or to clients of a customer, such as the clients **104A** through **104B** for the customer **102A** or the clients **104C** through **104D** for the customer **102B**. For example, one or more of the clients **104A** through **104D** may be voice over internet protocol (VOIP)-enabled devices configured to send and receive calls over a network **114**. The telephony server **112** includes a session initiation protocol (SIP) zone and a web zone. The SIP zone enables a client of a customer, such as the customer **102A** or **102B**, to send and receive calls over the network **114** using SIP requests and responses. The web zone integrates telephony data with the application server **108** to enable telephony-based traffic access to software services run by the application server **108**. Given the combined functionality of the SIP zone and the web zone, the telephony server **112** may be or include a cloud-based private branch exchange (PBX) system.

[0027] The SIP zone receives telephony traffic from a client of a customer and directs same to a destination device. The SIP zone may include one or more call switches for routing the telephony traffic. For example, to route a VOIP call from a first VOIP-enabled client of a customer to a second VOIP-enabled client of the same customer, the telephony server **112** may initiate a SIP transaction between a first client and the second client using a PBX for the customer. However, in another example, to route a VOIP call from a VOIP-enabled client of a customer to a client or non-client device (e.g., a desktop phone which is not configured for VOIP communication) which is not VOIP-enabled, the telephony server **112** may initiate a SIP transaction via a VOIP gateway that transmits the SIP signal to a public switched telephone network (PSTN) system for outbound communication to the non-VOIP-enabled client or non-client phone. Hence, the telephony server **112** may include a PSTN system and may in some cases access an external PSTN system.

[0028] The telephony server **112** includes one or more session border controllers (SBCs) for interfacing the SIP zone with one or more aspects external to the telephony server **112**. In particular, an SBC can act as an intermediary to transmit and receive SIP requests and responses between clients or non-client devices of a given customer with clients or non-client devices external to that customer. When incoming telephony traffic for delivery to a client of a customer, such as one of the clients **104A** through **104D**, originating from outside the telephony server **112** is received, a SBC receives the traffic and forwards it to a call switch for routing to the client.

[0029] In some implementations, the telephony server **112**, via the SIP zone, may enable one or more forms of peering to a carrier or customer premise. For example, Internet peering to a customer premise may be enabled to ease the migration of the customer from a legacy provider to a service provider operating the telephony server **112**. In another example, private peering to a customer premise may be enabled to leverage a private connection terminating at one end at the telephony server **112** and at the other end at a computing aspect of the customer environment. In yet another example, carrier peering may be enabled to leverage a connection of a peered carrier to the telephony server **112**.

[0030] In some such implementations, a SBC or telephony gateway within the customer environment may operate as an intermediary between the SBC of the telephony server **112** and a PSTN for a peered carrier. When an external SBC is first registered with the telephony server **112**, a call from a client can be routed through the SBC to a load balancer of the SIP zone, which directs the traffic to a call switch of the telephony server **112**. Thereafter, the SBC may be configured to communicate directly with the call switch.

[0031] The web zone receives telephony traffic from a client of a customer, via the SIP zone, and directs same to the application server **108** via one or more Domain Name System (DNS) resolutions. For example, a first DNS within the web zone may process a request received via the SIP zone and then deliver the processed request to a web service which connects to a second DNS

at or otherwise associated with the application server **108**. Once the second DNS resolves the request, it is delivered to the destination service at the application server **108**. The web zone may also include a database for authenticating access to a software application for telephony traffic processed within the SIP zone, for example, a softphone.

[0032] The clients **104A** through **104D** communicate with the servers **108** through **112** of the datacenter **106** via the network **114**. The network **114** can be or include, for example, the Internet, a local area network (LAN), a wide area network (WAN), a virtual private network (VPN), or another public or private means of electronic computer communication capable of transferring data between a client and one or more servers. In some implementations, a client can connect to the network **114** via a communal connection point, link, or path, or using a distinct connection point, link, or path. For example, a connection point, link, or path can be wired, wireless, use other communications technologies, or a combination thereof.

[0033] The network **114**, the datacenter **106**, or another element, or combination of elements, of the system **100** can include network hardware such as routers, switches, other network devices, or combinations thereof. For example, the datacenter **106** can include a load balancer **116** for routing traffic from the network **114** to various servers associated with the datacenter **106**. The load balancer **116** can route, or direct, computing communications traffic, such as signals or messages, to respective elements of the datacenter **106**.

[0034] For example, the load balancer **116** can operate as a proxy, or reverse proxy, for a service, such as a service provided to one or more remote clients, such as one or more of the clients **104A** through **104D**, by the application server **108**, the telephony server **112**, and/or another server. Routing functions of the load balancer **116** can be configured directly or via a DNS. The load balancer **116** can coordinate requests from remote clients and can simplify client access by masking the internal configuration of the datacenter **106** from the remote clients.

[0035] In some implementations, the load balancer **116** can operate as a firewall, allowing or preventing communications based on configuration settings. Although the load balancer **116** is depicted in FIG. 1 as being within the datacenter **106**, in some implementations, the load balancer **116** can instead be located outside of the datacenter **106**, for example, when providing global routing for multiple datacenters. In some implementations, load balancers can be included both within and outside of the datacenter **106**. In some implementations, the load balancer **116** can be omitted.

[0036] FIG. 2 is a block diagram of an example internal configuration of a computing device **200** of an electronic computing and communications system. In one configuration, the computing device **200** may implement one or more of the client **104**, the application server **108**, the database server **110**, or the telephony server **112** of the system **100** shown in FIG. 1.

[0037] The computing device **200** includes components or units, such as a processor **202**, a memory **204**, a bus **206**, a power source **208**, peripherals **210**, a user interface **212**, a network interface **214**, other suitable components, or a combination thereof. One or more of the memory **204**, the power source **208**, the peripherals **210**, the user interface **212**, or the network interface **214** can communicate with the processor **202** via the bus **206**.

[0038] The processor **202** is a central processing unit, such as a microprocessor, and can include single or multiple processors having single or multiple processing cores. Alternatively, the processor **202** can include another type of device, or multiple devices, configured for manipulating or processing information. For example, the processor **202** can include multiple processors interconnected in one or more manners, including hardwired or networked. The operations of the processor **202** can be distributed across multiple devices or units that can be coupled directly or across a local area or other suitable type of network. The processor **202** can include a cache, or cache memory, for local storage of operating data or instructions.

[0039] The memory **204** includes one or more memory components, which may each be volatile memory or non-volatile memory. For example, the volatile memory can be random access memory

(RAM) (e.g., a DRAM module, such as DDR SDRAM). In another example, the non-volatile memory of the memory **204** can be a disk drive, a solid state drive, flash memory, or phase-change memory. In some implementations, the memory **204** can be distributed across multiple devices. For example, the memory **204** can include network-based memory or memory in multiple clients or servers performing the operations of those multiple devices.

[0040] The memory **204** can include data for immediate access by the processor **202**. For example, the memory **204** can include executable instructions **216**, application data **218**, and an operating system **220**. The executable instructions **216** can include one or more application programs, which can be loaded or copied, in whole or in part, from non-volatile memory to volatile memory to be executed by the processor **202**. For example, the executable instructions **216** can include instructions for performing some or all of the techniques of this disclosure. The application data **218** can include user data, database data (e.g., database catalogs or dictionaries), or the like. In some implementations, the application data **218** can include functional programs, such as a web browser, a web server, a database server, another program, or a combination thereof. The operating system **220** can be, for example, Microsoft Windows®, Mac OS X®, or Linux®; an operating system for a mobile device, such as a smartphone or tablet device; or an operating system for a non-mobile device, such as a mainframe computer.

[0041] The power source **208** provides power to the computing device **200**. For example, the power source **208** can be an interface to an external power distribution system. In another example, the power source **208** can be a battery, such as where the computing device **200** is a mobile device or is otherwise configured to operate independently of an external power distribution system. In some implementations, the computing device **200** may include or otherwise use multiple power sources. In some such implementations, the power source **208** can be a backup battery.

[0042] The peripherals **210** includes one or more sensors, detectors, or other devices configured for monitoring the computing device **200** or the environment around the computing device **200**. For example, the peripherals **210** can include a geolocation component, such as a global positioning system location unit. In another example, the peripherals can include a temperature sensor for measuring temperatures of components of the computing device **200**, such as the processor **202**. In some implementations, the computing device **200** can omit the peripherals **210**.

[0043] The user interface **212** includes one or more input interfaces and/or output interfaces. An input interface may, for example, be a positional input device, such as a mouse, touchpad, touchscreen, or the like; a keyboard; or another suitable human or machine interface device. An output interface may, for example, be a display, such as a liquid crystal display, a cathode-ray tube, a light emitting diode display, or other suitable display.

[0044] The network interface **214** provides a connection or link to a network (e.g., the network **114** shown in FIG. **1**). The network interface **214** can be a wired network interface or a wireless network interface. The computing device **200** can communicate with other devices via the network interface **214** using one or more network protocols, such as using Ethernet, transmission control protocol (TCP), internet protocol (IP), power line communication, an IEEE 802.X protocol (e.g., Wi-Fi, Bluetooth, or ZigBee), infrared, visible light, general packet radio service (GPRS), global system for mobile communications (GSM), code-division multiple access (CDMA), Z-Wave, another protocol, or a combination thereof.

[0045] FIG. **3** is a block diagram of an example of a software platform **300** implemented by an electronic computing and communications system, for example, the system **100** shown in FIG. **1**. The software platform **300** is a UCaaS platform accessible by clients of a customer of a UCaaS platform provider, for example, the clients **104A** through **104B** of the customer **102A** or the clients **104C** through **104D** of the customer **102B** shown in FIG. **1**. The software platform **300** may be a multi-tenant platform instantiated using one or more servers at one or more datacenters including, for example, the application server **108**, the database server **110**, and the telephony server **112** of the datacenter **106** shown in FIG. **1**.

[0046] The software platform **300** includes software services accessible using one or more clients. For example, a customer **302** as shown includes four clients—a desk phone **304**, a computer **306**, a mobile device **308**, and a shared device **310**. The desk phone **304** is a desktop unit configured to at least send and receive calls and includes an input device for receiving a telephone number or extension to dial to and an output device for outputting audio and/or video for a call in progress. The computer **306** is a desktop, laptop, or tablet computer including an input device for receiving some form of user input and an output device for outputting information in an audio and/or visual format. The mobile device **308** is a smartphone, wearable device, or other mobile computing aspect including an input device for receiving some form of user input and an output device for outputting information in an audio and/or visual format. The desk phone **304**, the computer **306**, and the mobile device **308** may generally be considered personal devices configured for use by a single user. The shared device **310** is a desk phone, a computer, a mobile device, or a different device which may instead be configured for use by multiple specified or unspecified users.

[0047] Each of the clients **304** through **310** includes or runs on a computing device configured to access at least a portion of the software platform **300**. In some implementations, the customer **302** may include additional clients not shown. For example, the customer **302** may include multiple clients of one or more client types (e.g., multiple desk phones or multiple computers) and/or one or more clients of a client type not shown in FIG. 3 (e.g., wearable devices or televisions other than as shared devices). For example, the customer **302** may have tens or hundreds of desk phones, computers, mobile devices, and/or shared devices.

[0048] The software services of the software platform **300** generally relate to communications tools, but are in no way limited in scope. As shown, the software services of the software platform **300** include telephony software **312**, conferencing software **314**, messaging software **316**, and other software **318**. Some or all of the software **312** through **318** uses customer configurations **320** specific to the customer **302**. The customer configurations **320** may, for example, be data stored within a database or other data store at a database server, such as the database server **110** shown in FIG. 1.

[0049] The telephony software **312** enables telephony traffic between ones of the clients **304** through **310** and other telephony-enabled devices, which may be other ones of the clients **304** through **310**, other VOIP-enabled clients of the customer **302**, non-VOIP-enabled devices of the customer **302**, VOIP-enabled clients of another customer, non-VOIP-enabled devices of another customer, or other VOIP-enabled clients or non-VOIP-enabled devices. Calls sent or received using the telephony software **312** may, for example, be sent or received using the desk phone **304**, a softphone running on the computer **306**, a mobile application running on the mobile device **308**, or using the shared device **310** that includes telephony features.

[0050] The telephony software **312** further enables phones that do not include a client application to connect to other software services of the software platform **300**. For example, the telephony software **312** may receive and process calls from phones not associated with the customer **302** to route that telephony traffic to one or more of the conferencing software **314**, the messaging software **316**, or the other software **318**.

[0051] The conferencing software **314** enables audio, video, and/or other forms of conferences between multiple participants, such as to facilitate a conference between those participants. In some cases, the participants may all be physically present within a single location, for example, a conference room, in which the conferencing software **314** may facilitate a conference between only those participants and using one or more clients within the conference room. In some cases, one or more participants may be physically present within a single location and one or more other participants may be remote, in which the conferencing software **314** may facilitate a conference between all of those participants using one or more clients within the conference room and one or more remote clients. In some cases, the participants may all be remote, in which the conferencing software **314** may facilitate a conference between the participants using different clients for the



participants. The conferencing software **314** can include functionality for hosting, presenting scheduling, joining, or otherwise participating in a conference. The conferencing software **314** may further include functionality for recording some or all of a conference and/or documenting a transcript for the conference.

[0052] The messaging software **316** enables instant messaging, unified messaging, and other types of messaging communications between multiple devices, such as to facilitate a chat or other virtual conversation between users of those devices. The unified messaging functionality of the messaging software **316** may, for example, refer to email messaging which includes a voicemail transcription service delivered in email format.

[0053] The other software **318** enables other functionality of the software platform **300**. Examples of the other software **318** include, but are not limited to, device management software, resource provisioning and deployment software, administrative software, third party integration software, and the like. In one particular example, the other software **318** can include functionality for dynamically configuring one or more conference settings for devices that are in-transit during a conference.

[0054] The software **312** through **318** may be implemented using one or more servers, for example, of a datacenter such as the datacenter **106** shown in FIG. **1**. For example, one or more of the software **312** through **318** may be implemented using an application server, a database server, and/or a telephony server, such as the servers **108** through **112** shown in FIG. **1**. In another example, one or more of the software **312** through **318** may be implemented using servers not shown in FIG. **1**, for example, a meeting server, a web server, or another server. In yet another example, one or more of the software **312** through **318** may be implemented using one or more of the servers **108** through **112** and one or more other servers. The software **312** through **318** may be implemented by different servers or by the same server.

[0055] Features of the software services of the software platform **300** may be integrated with one another to provide a unified experience for users. For example, the messaging software **316** may include a user interface element configured to initiate a call with another user of the customer **302**. In another example, the telephony software **312** may include functionality for elevating a telephone call to a conference. In yet another example, the conferencing software **314** may include functionality for sending and receiving instant messages between participants and/or other users of the customer **302**. In yet another example, the conferencing software **314** may include functionality for file sharing between participants and/or other users of the customer **302**. In some implementations, some or all of the software **312** through **318** may be combined into a single software application run on clients of the customer, such as one or more of the clients **304** through **310**.

[0056] FIG. **4** is a block diagram of an example of a conferencing system **400** for delivering conferencing software services in an electronic computing and communications system, for example, the system **100** shown in FIG. **1**. The conferencing system **400** includes a thread encoding tool **402**, a switching/routing tool **404**, and conferencing software **406**. The conferencing software **406**, which may, for example, be the conferencing software **314** shown in FIG. **3**, is software for implementing conferences (e.g., video conferences) between users of clients and/or phones, such as clients **408** and **410** and phone **412**. For example, the clients **408** or **410** may each be one of the clients **304** through **310** shown in FIG. **3** that runs a client application associated with the conferencing software **406**, and the phone **412** may be a telephone which does not run a client application associated with the conferencing software **406** or otherwise access a web application associated with the conferencing software **406**. The conferencing system **400** may in at least some cases be implemented using one or more servers of the system **100**, for example, the application server **108** shown in FIG. **1**. Although two clients and a phone are shown in FIG. **4**, other numbers of clients and/or other numbers of phones can connect to the conferencing system **400**.

[0057] Implementing a conference includes transmitting and receiving video, audio, and/or other

data between clients and/or phones, as applicable, of the conference participants. Each of the client **408**, the client **410**, and the phone **412** may connect through the conferencing system **400** using separate input streams to enable users thereof to participate in a conference together using the conferencing software **406**. The various channels used for establishing connections between the clients **408** and **410** and the phone **412** may, for example, be based on the individual device capabilities of the clients **408** and **410** and the phone **412**.

[0058] The conferencing software **406** includes a user interface tile for each input stream received and processed at the conferencing system **400**. A user interface tile as used herein generally refers to a portion of a conferencing software user interface which displays information (e.g., a rendered video) associated with one or more conference participants. A user interface tile may, but need not, be generally rectangular. The size of a user interface tile may depend on one or more factors including the view style set for the conferencing software user interface at a given time and whether the one or more conference participants represented by the user interface tile are active speakers at a given time. The view style for the conferencing software user interface, which may be uniformly configured for all conference participants by a host of the subject conference or which may be individually configured by each conference participant, may be one of a gallery view in which all user interface tiles are similarly or identically sized and arranged in a generally grid layout or a speaker view in which one or more user interface tiles for active speakers are enlarged and arranged in a center position of the conferencing software user interface while the user interface tiles for other conference participants are reduced in size and arranged near an edge of the conferencing software user interface. In some cases, the view style or one or more other configurations related to the display of user interface tiles may be based on a type of video conference implemented using the conferencing software **406** (e.g., a participant-to-participant video conference, a contact center engagement video conference, or an online learning video conference, as will be described below).

[0059] The content of the user interface tile associated with a given participant may be dependent upon the source of the input stream for that participant. For example, where a participant accesses the conferencing software **406** from a client, such as the client **408** or **410**, the user interface tile associated with that participant may include a video stream captured at the client and transmitted to the conferencing system **400**, which is then transmitted from the conferencing system **400** to other clients for viewing by other participants (although the participant may optionally disable video features to suspend the video stream from being presented during some or all of the conference). In another example, where a participant accesses the conferencing software **406** from a phone, such as the phone **412**, the user interface tile for the participant may be limited to a static image showing text (e.g., a name, telephone number, or other identifier associated with the participant or the phone **412**) or other default background aspect since there is no video stream presented for that participant.

[0060] The thread encoding tool **402** receives video streams separately from the clients **408** and **410** and encodes those video streams using one or more transcoding tools, such as to produce variant streams at different resolutions. For example, a given video stream received from a client may be processed using multi-stream capabilities of the conferencing system **400** to result in multiple resolution versions of that video stream, including versions at 90p, 180p, 360p, 720p, and/or 1080p, amongst others. The video streams may be received from the clients over a network, for example, the network **114** shown in FIG. **1**, or by a direct wired connection, such as using a universal serial bus (USB) connection or like coupling aspect. After the video streams are encoded, the switching/routing tool **404** direct the encoded streams through applicable network infrastructure and/or other hardware to deliver the encoded streams to the conferencing software **406**. The conferencing software **406** transmits the encoded video streams to each connected client, such as the clients **408** and **410**, which receive and decode the encoded video streams to output the video content thereof for display by video output components of the clients, such as within respective

user interface tiles of a user interface of the conferencing software **406**.

[0061] A user of the phone **412** participates in a conference using an audio-only connection and may be referred to an audio-only caller. To participate in the conference from the phone **412**, an audio signal from the phone **412** is received and processed at a VOIP gateway **414** to prepare a digital telephony signal for processing at the conferencing system **400**. The VOIP gateway **414** may be part of the system **100**, for example, implemented at or in connection with a server of the datacenter **106**, such as the telephony server **112** shown in FIG. **1**. Alternatively, the VOIP gateway **414** may be located on the user-side, such as in a same location as the phone **412**. The digital telephony signal is a packet switched signal transmitted to the switching/routing tool **404** for delivery to the conferencing software **406**. The conferencing software **406** outputs an audio signal representing a combined audio capture for each participant of the conference for output by an audio output component of the phone **412**. In some implementations, the VOIP gateway **414** may be omitted, for example, where the phone **412** is a VOIP-enabled phone.

[0062] A conference implemented using the conferencing software **406** may be referred to as a video conference in which video streaming is enabled for the conference participants thereof. The enabling of video streaming for a conference participant of a video conference does not require that the conference participant activate or otherwise use video functionality for participating in the video conference. For example, a conference may still be a video conference where none of the participants joining using clients turns on their video stream for any portion of the conference. In some cases, however, the conference may have video disabled, such as where each participant connects to the conference using a phone rather than a client, or where a host of the conference selectively configures the conference to exclude video functionality.

[0063] FIG. **5A** is a swim lane diagram of an example of a conferencing system **500** configured to provide dynamic conference settings to in-transit devices. The conferencing system **500** may, for example, be the conferencing system **400** shown in FIG. **4**. As shown in FIG. **5A**, the conferencing system **500** may include a server **502** and a calendar system **504**. The server **502** may be a hardware server or implemented as software. The calendar system **504** may include or otherwise access a database server, such as the database server **110** shown in FIG. **1**, that stores calendar records of users of the system **500**. In some examples, the calendar system **504** may be implemented as a component of the server **502**.

[0064] The server **502** includes conferencing software, such as conferencing software **314** shown in FIG. **3**. The conferencing software is configured to enable audio, video, and/or other forms of conferences between multiple participants, such as users of client device **506** and client device **508**. Two client devices are shown in FIG. **5A** for simplicity and clarity, and in some examples, more than two client devices may exist. The client device **506** and the client device **508** may each be one of the clients **304** to **310** shown in FIG. **3** or of similar types of client devices, whether or not corresponding to a customer of a software platform. In this example, the user of the client device **508** is, or will be, in-transit during a conference.

[0065] In this example, the client device **506** transmits a request **510** to the server **502**. The request **510** is a request to generate a calendar entry for a conference. The request **510** includes an indication of a timeslot for the conference and one or more participants. The request **510** may indicate that the conference includes an audio component, a video component, a messaging component, a screen share component, a whiteboard component, a polling component, or the like or a combination thereof. In some examples, the request **510** may include an indication that the user will be in-transit during the indicated timeslot.

[0066] The server **502** receives the request **510** and obtains conference preference information (CPI) **512** for each participant for the indicated timeslot. In some examples, the server **502** may transmit a request **514** to the calendar system **504** to obtain the CPI **512**. In this example, the CPI **512** indicates that the user of the client device **508** is in-transit during the indicated timeslot. The server **502** determines **516** one or more conference settings based on the CPI **512** of the user of the

client device **508** that indicates that the user is in-transit during the indicated timeslot. The one or more conference settings may be associated with an audio component of the conference, a video component of the conference, a messaging component of the conference, a screen share component of the conference, a whiteboard component of the conference, a polling component of the conference, or any combination thereof. In some examples, the server **502** may transmit one or more questions for display on the client device **506**. The client device **506** may transmit one or more responses to the one or more questions to the server **502**, based on an input from the user of the client device **506**. The server **502** receives the one or more responses and determines the one or more conference settings based on the one or more responses.

[0067] The server **502** generates **518** a calendar entry for the conference based on the one or more conference settings. The calendar entry may include an indication of one or more users that are, or will be, in-transit during the conference. The calendar entry is generated for the timeslot indicated in the request **510**. In some examples, the server **502** may transmit the calendar entry **520** to the calendar system **504** for storage.

[0068] In some examples, the timeslot for the conference may be determined based on the CPI **512** of the user of the client device **508** such that the conference is scheduled when the user of the client device **508** is in-transit. The system **500** may use an artificial intelligence (AI) scheduler to determine which scheduled conferences would require more focus and attention of the user of the client device **508** to schedule conferences that require less focus and attention of the user of the client device **508** while the user is in-transit. For example, the AI scheduler may make this determination based on the agenda, other participants, past conferences, or any combination thereof. The AI scheduler may determine a focus score based on one or more of these parameters and compare the focus score to a threshold to make the determination of which conferences require more focus and attention of the user of the client device **508**.

[0069] The server **502** is configured to facilitate the conference **522** between the client device **506** and the client device **508**. The server **502** is configured to disable **524** one or more conference components for the client device **508** based on the one or more conference settings. The client device **508** can then access **526** the conference **522** with limited conference components enabled. For example, one or more of the video component of the conference, the messaging component of the conference, the screen share component of the conference, the whiteboard component of the conference, the polling component of the conference, or any combination thereof, can be disabled when the user of the client device **508** is in-transit during the conference.

[0070] In an example, the CPI of the user of the client device **508** may indicate that a pre-authorization request is automatically transmitted to the client device **506** that indicates that the conference is recorded when the user of the client device **508** is in-transit. The pre-authorization request to record the conference may be transmitted to the client device **506** prior to the start of the conference or when the client device **508** joins the conference. The pre-authorization request may be transmitted to the client device **506** via a message in an in-conference chat. The pre-authorization request may also request pre-authorization for access to the conference recording. If the pre-authorization request is not granted, the client device **508** may automatically transmit an authorization request after the conclusion of the conference to access the conference recording. The conference recording may include one or more segments that are tagged where a screen was shared so that the user of the client device **508** can specifically watch the portions of the conference that s/he was unable to fully participate in while in-transit.

[0071] In another example, the CPI of the user of the client device **508** may indicate that conferences while the user is in-transit enable a single-speaker mode whereby only one participant of the conference is enabled to speak at a time. The participant that is enabled to speak when the conference is in the single-speaker mode must either transfer the privilege to speak to another participant, drop the privilege to be picked up by the next participant that wishes to speak, or in some cases be forced (by the host or anonymously voted majority) to drop the privilege. The

participant that is in-transit may request the privilege of speaking during single-speaker mode, for example, using a voice request. The voice request may include a passkey if a confirmation is required (e.g., when passkey confirmation is enabled). If the participant that is enabled to speak when the conference is in single-speaker mode leaves the conference, the privilege may be picked up by the next participant that wishes to speak. The single-speaker mode allows any participant that is in-transit the freedom from having to unmute themselves every time they speak, and prevents other participants from interrupting since there can be higher audio latency when the speaking participant is in-transit (e.g., while driving at high speeds). While being offered the privilege to speak during the single-speaker mode, the participant may accept the privilege using a voice command. The participant that is in-transit may relinquish the privilege of speaking during single-speaker mode, for example, using a voice command, accepting a request from another participant via a voice command, or the system may detect a period of silence that meets a threshold.

[0072] In another example, the quality of service (QoS) of the device of the participant in-transit may be displayed to other participants in the conference. By displaying the QoS of the device, the other participants of the conference are automatically alerted that the participant is in-transit and notified of the connection strength of the device of the participant in-transit. This may be useful when single-speaker mode is not enabled because participants typically manually time their speaking so as not to interrupt a speaking participant that is experiencing latency. The device of the participant in-transit indicates its QoS such that the other participants can calibrate their timing of when to speak based on the latency that the device of the participant in-transit is experiencing. In addition, AI or machine learning (ML) may be used to predict when it is safe to speak based on the latency of the device of the participant in-transit and the user's speaking patterns. For example, the system may provide a visual indicator, such as a light, to indicate when it is safe to speak. In some examples, an audible or haptic indicator may be used to indicate when it is safe to speak.

[0073] FIG. 5B is a swim lane diagram of another example of the conferencing system 500 shown in FIG. 5A that is configured to provide dynamic conference settings to in-transit devices. In this example, the client device 506 transmits a request 528 to the server 502 that indicates that the user of the client device 506 will be in-transit during a timeslot. The server 502 receives the request 528 and forwards the request 528 to the calendar system 504. The calendar system 504 receives the request 528 and updates 530 the calendar record of the user of the client device 506 indicating that the user of the client device 506 will be in-transit during the timeslot.

[0074] At some point in time, the client device 508 transmits an invite 532 for a conference to the client device 506 via the server 502. The invite 532 may include one or more users (e.g., invitees to the conference), a date for the conference, a timeslot for the conference, a transit status for the user of the client device 508 during the conference, or any combination thereof. The server 502 receives the invite 532 for the conference and transmits a request 534 to the calendar system 504. The request 534 causes the calendar system 504 to check 536 the calendar records of the users indicated in the invite 532. In this example, the calendar system 504 determines that the timeslot of the conference overlaps with the timeslot in which the user of the client device 506 will be in-transit. The calendar system 504 transmits a response 538 to the server. The response 538 indicates that the user of the client device 506 will be in-transit during the conference. The server 502 receives the response 538 and transmits a notification 540 to the client device 508. The notification 540 indicates that the user of the client device 506 will be in-transit during the conference and that the client device 506 will have limited functionality for the conference. The client device 508 is configured to display 542 the notification 540 on a display of the client device 508. The notification 540 may include an option for the user of the client device 508 to reschedule the conference.

[0075] To further describe some implementations in greater detail, reference is next made to examples of techniques which may be performed by or using a system for dynamically configuring one or more conference settings for devices that are in-transit during a conference. FIGS. 6 and 7

are flowcharts of examples of techniques that can be executed using computing devices, such as the systems, hardware, and software described with respect to FIGS. 1-5B. The techniques can be performed, for example, by executing a machine-readable program or other computer-executable instructions, such as routines, instructions, programs, or other code. The steps, or operations, of the techniques, or another technique, method, process, or algorithm described in connection with the implementations disclosed herein can be implemented directly in hardware, firmware, software executed by hardware, circuitry, or a combination thereof.

[0076] For simplicity of explanation, the techniques are depicted and described herein as a series of steps or operations. However, the steps or operations of the techniques in accordance with this disclosure can occur in various orders and/or concurrently. Additionally, other steps or operations not presented and described herein may be used. Furthermore, not all illustrated steps or operations may be required to implement a technique in accordance with the disclosed subject matter.

[0077] FIG. 6 is a flowchart of an example of a method **600** for providing dynamic conference settings to in-transit devices. At **602**, the method **600** includes obtaining CPI. The CPI may be obtained from a calendar system of a software platform. The obtained CPI may be associated with a timeslot of a conference and indicate that one or more participants of the conference may be in-transit during the conference. The conference may include an audio component, a video component, a messaging component, a polling component, another conference component, or any combination thereof.

[0078] At **604**, the method **600** includes determining one or more conference settings. The one or more conference settings may be determined based on the CPI(s) of one or more traveling participants (i.e., one or more participants that are in-transit during the conference). At **606**, the method **600** includes generating a calendar entry for the conference. The calendar entry for the conference may be generated based on the one or more conference settings. In an example, a timeslot for the calendar entry may be determined based on the CPI(s) of the one or more traveling participants such that the conference is scheduled for a timeslot where at least one of the traveling participants is in-transit.

[0079] At **608**, the method **600** includes facilitating the conference between devices of the participants. Facilitating the conference may include enabling audio communication, video communication, and/or other forms of communication between devices of multiple participants. At **610**, the method **610** includes disabling one or more conference components for the traveling participants that are in transit during the timeslot based on the one or more settings. The one or more conference components may include the video component, the messaging component, the polling component, or another conference component.

[0080] While a participant of a conference is in-transit, the connection to the conference may be lost on occasion, for example, while moving through a wireless connectivity dead zone. FIG. 7 is a flowchart of an example of method **700** for automatically reconnecting to a conference while in-transit. At **702**, the method **700** includes detecting, at a client device of the participant, that a connection to a conference is lost while in-transit.

[0081] At **704**, the method **700** includes the client device transmitting a reconnect message to a server of a software platform to reconnect to the conference. The reconnect message may include a device identifier (ID) of the client device, a conference ID, an indicator that the user of the client device is in-transit, an indicator that the reconnect message is associated with a reconnection attempt, or any combination thereof. In some examples, the reconnection message may be transmitted by the server. For example, the server may transmit the reconnection message to the client device as an outbound call.

[0082] At **706**, the method **700** includes determining whether the connection is restored. The determination of whether the connection is restored may be based on receiving an acknowledgement (ACK) or a connections successful message from the server. If the client device determines that the connection is not restored, the client device transmits another reconnect

message. Reconnect messages may be transmitted until the connection is restored or until a threshold number of reconnect messages have been transmitted. The threshold number of reconnect messages may be based on a user or an administrator setting.

[0083] If the client device determines that the connection is restored, the method **700** at **708** includes resuming the conference. The client device may resume the conference by bypassing a waiting room of the conference, for example, based on the indicator that the reconnect message is associated with a reconnection attempt.

[0084] In some examples, AI or ML can be used to learn patterns of when and/or where connections are lost while the client device is in-transit and/or the durations of previous lost connections at the same location. The AI and/or ML models may be based on supervised learning models or unsupervised learning models. The learned patterns of lost connections may be based on global positioning system (GPS) data of the client device. In these examples, the client device or the server may automatically transmit a notification to other participants of the conference that the client device will temporarily lose its connection to the conference based on the GPS data of the client device. A timer may be displayed on the devices of the other participants showing when the participant is expected to reconnect to the conference. The timer may be based on the GPS data of the client device, the speed at which the client device is traveling, a learned duration pattern of connection loss, or any combination thereof. In some examples, the conference may automatically end when the participant reaches their destination based on the GPS data. In these examples, a notification may be transmitted to other participant devices that indicates when the conference will end and may provide a countdown timer. An override option may be enabled to circumvent the automatic shutoff of the conference in some cases. In other examples, the conference session from the participant device that is in-transit may be automatically transferred to another client device at the destination based on the GPS data (e.g. when taking a call on the way to the office, the call is automatically transferred to the computer from the mobile device once the computer has booted up along with the conference client software).

[0085] In some examples, if the client device is unable to automatically reconnect to the conference, and if the user of the client device is the host of the conference, the server may implement an automated agent to automatically coordinate with the other participants of the conference to reschedule the conference and transmit an invitation for the rescheduled conference. If the user is not the host, but is a key participant such that the conference could not have continued without the user, the automated agent may transmit a message to the other participants that indicates other dates and times to reschedule the conference.

[0086] An aspect may include a method that includes receiving a request to generate a calendar entry for a conference that includes an audio component and a video component. The request may include a timeslot for the conference. The method may include obtaining, for each participant of participants of the conference, respective CPI associated with the timeslot. The CPI of a participant of the participants may indicate that the participant is in-transit during the timeslot. The method may include determining one or more conference settings based on the CPI of the participant. The method may include generating the calendar entry for the conference based on the one or more conference settings. The method may include facilitating the conference between devices of the participants. The method may include disabling the video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0087] An aspect may include a system that comprises a server. The server may be configured to receive a request to generate a calendar entry for a conference from a client device, wherein the conference includes an audio component and a video component. The request may include a timeslot for the conference. The server may be configured to obtain, for each participant of participants of the conference, respective CPI associated with the timeslot. The CPI of a participant of the participants may indicate that the participant is in-transit during the timeslot. The server may be configured to determine one or more conference settings based on the CPI of the participant.

The server may be configured to generate the calendar entry for the conference based on the one or more conference settings. The server may be configured to facilitate the conference between devices of the participants. The server may be configured to disable the video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0088] An aspect may include a non-transitory computer-readable medium comprising instructions stored on a memory, that when executed by a processor, cause the processor to perform operations. The operations may include receiving a request to generate a calendar entry for a conference that includes an audio component and a video component. The request may include a timeslot for the conference. The operations may include obtaining, for each participant of participants of the conference, respective CPI associated with the timeslot. The CPI of a participant of the participants may indicate that the participant is in-transit during the timeslot. The operations may include determining one or more conference settings based on the CPI of the participant. The operations may include generating the calendar entry for the conference based on the one or more conference settings. The operations may include facilitating the conference between devices of the participants. The operations may include disabling the video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0089] An aspect may include a method that includes generating a focus score. The method may include generating a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold. The method may include enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted. The method may include facilitating the conference between devices of the participants in the single-speaker mode. The method may include disabling a video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0090] An aspect may include a system that comprises a server. The server may be configured to generate a focus score based on a topic. The server may be configured to generate a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold. The server may be configured to enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted. The server may be configured to facilitate the conference between devices of the participants in the single-speaker mode. The server may be configured to disable a video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0091] An aspect may include non-transitory computer-readable medium comprising instructions stored on a memory, that when executed by a processor, cause the processor to perform operations. The operations may include generating a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold. The operations may include enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted. The operations may include facilitating the conference between devices of the participants in the single-speaker mode. The operations may include disabling a video component of the conference for the participant during the timeslot based on the one or more conference settings.

[0092] In one or more aspects, the conference may include a messaging component, and the messaging component of the conference may be disabled for the participant during the timeslot.



The messaging component may be disabled based on the one or more conference settings. In one or more aspects, the conference may include a polling component, and the polling component may be disabled for the participant during the timeslot. The polling component may be disabled based on the one or more conference settings. In one or more aspects, one or more questions may be transmitted for display on a device from which the request is received. In one or more aspects, one or more responses to the one or more questions may be received from the device. In one or more aspects, the one or more conference settings may be determined based on the one or more responses. In one or more aspects, the timeslot for the calendar entry may be determined based on the CPI of the participant, and the conference may be scheduled for that timeslot. In one or more aspects, the conference may be automatically recorded based on the CPI of the participant that is in-transit during the timeslot. In one or more aspects, a single-speaker mode may be enabled based on the CPI of the participant, wherein the single-speaker mode allows one participant of the participants to speak at a time. In one or more aspects, the conference may be scheduled based on the CPI of the participant. In one or more aspects, a recorded conference may include one or more tags associated with a segment of the recorded conference associated with a screenshare. In one or more aspects, the conference may include a screen share component, and the screen share component may be disabled for the participant during the timeslot based on the one or more conference settings. In one or more aspects, the conference may include a whiteboard component, and the whiteboard component may be disabled for the participant during the timeslot based on the one or more conference settings. In one or more aspects, a client device or a server of the system may detect that a connection between the client device of the participant and the conference is lost and automatically restore the connection between the client device of the participant and the conference. In one or more aspects, a reconnection message may be transmitted to the client device of the participant. In one or more aspects, a reconnection message may be transmitted by the client device of the participant and received by a server of the system.

[0093] The implementations of this disclosure can be described in terms of functional block components and various processing operations. Such functional block components can be realized by a number of hardware or software components that perform the specified functions. For example, the disclosed implementations can employ various integrated circuit components (e.g., memory elements, processing elements, logic elements, look-up tables, and the like), which can carry out a variety of functions under the control of one or more microprocessors or other control devices. Similarly, where the elements of the disclosed implementations are implemented using software programming or software elements, the systems and techniques can be implemented with a programming or scripting language, such as C, C++, Java, JavaScript, assembler, or the like, with the various algorithms being implemented with a combination of data structures, objects, processes, routines, or other programming elements.

[0094] Functional aspects can be implemented in algorithms that execute on one or more processors. Furthermore, the implementations of the systems and techniques disclosed herein could employ a number of conventional techniques for electronics configuration, signal processing or control, data processing, and the like. The words “mechanism” and “component” are used broadly and are not limited to mechanical or physical implementations, but can include software routines in conjunction with processors, etc. Likewise, the terms “system” or “tool” as used herein and in the figures, but in any event based on their context, may be understood as corresponding to a functional unit implemented using software, hardware (e.g., an integrated circuit, such as an ASIC), or a combination of software and hardware. In certain contexts, such systems or mechanisms may be understood to be a processor-implemented software system or processor-implemented software mechanism that is part of or callable by an executable program, which may itself be wholly or partly composed of such linked systems or mechanisms.

[0095] Implementations or portions of implementations of the above disclosure can take the form of a computer program product accessible from, for example, a computer-usable or computer-

readable medium. A computer-usable or computer-readable medium can be a device that can, for example, tangibly contain, store, communicate, or transport a program or data structure for use by or in connection with a processor. The medium can be, for example, an electronic, magnetic, optical, electromagnetic, or semiconductor device.

[0096] Other suitable mediums are also available. Such computer-usable or computer-readable media can be referred to as non-transitory memory or media, and can include volatile memory or non-volatile memory that can change over time. The quality of memory or media being non-transitory refers to such memory or media storing data for some period of time or otherwise based on device power or a device power cycle. A memory of an apparatus described herein, unless otherwise specified, does not have to be physically contained by the apparatus, but is one that can be accessed remotely by the apparatus, and does not have to be contiguous with other memory that might be physically contained by the apparatus.

[0097] While the disclosure has been described in connection with certain implementations, it is to be understood that the disclosure is not to be limited to the disclosed implementations but, on the contrary, is intended to cover various modifications and equivalent arrangements included within the scope of the appended claims, which scope is to be accorded the broadest interpretation so as to encompass all such modifications and equivalent structures as is permitted under the law.

## Claims

1. A method, comprising: generating a focus score based on a topic; generating a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold; enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted; facilitating the conference between the participant device of the one participant and the participant devices of the non-speaking participants in the single-speaker mode; and disabling a video component of the conference for the participant during the timeslot based on the one or more conference settings.
2. The method of claim 1, wherein the conference includes a messaging component, the method further comprising: disabling the messaging component of the conference for the participant during the timeslot based on the one or more conference settings.
3. The method of claim 1, wherein the conference includes a polling component, the method further comprising: disabling the polling component of the conference for the participant during the timeslot based on the one or more conference settings.
4. The method of claim 1, further comprising: transmitting one or more questions for display on a device from which a request is received; receiving one or more responses to the one or more questions from the device; and determining the one or more conference settings based on the one or more responses.
5. The method of claim 1, further comprising: determining the timeslot for the calendar entry; and scheduling the conference for the timeslot.
6. The method of claim 1, further comprising: automatically recording the conference.
7. The method of claim 1, further comprising: obtaining, for each participant of participants of the conference, respective conference preference information (CPI) associated with the timeslot, wherein the CPI of a participant of the participants indicates that the participant is in-transit during the timeslot.
8. A system, comprising: a server configured to: generate a focus score based on a topic; generate a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold;

enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted; facilitate the conference between the participant device of the one participant and the participant devices of the non-speaking participants in the single-speaker mode; and disable a video component of the conference for the participant during the timeslot based on the one or more conference settings.

**9.** The system of claim 8, wherein the conference includes a messaging component, the server further configured to: disable the messaging component of the conference for the participant.

**10.** The system of claim 8, wherein the conference includes a polling component, the server further configured to: disable the polling component of the conference for the participant.

**11.** The system of claim 8, wherein the server is further configured to: transmit one or more questions for display on a device from which a request is received; and determine the one or more conference settings based on a received response.

**12.** The system of claim 8, wherein the server is further configured to: schedule the conference.

**13.** The system of claim 8, wherein the server is further configured to: automatically record the conference, wherein the recorded conference includes one or more tags associated with a segment of the recorded conference associated with a screen share.

**14.** A non-transitory computer-readable medium comprising instructions stored on a memory, that when executed by a processor, cause the processor to perform operations comprising: generating a focus score based on a topic; generating a calendar entry for a conference based on one or more conference settings and the focus score, wherein the calendar entry is generated for a timeslot when the focus score is below a threshold and the calendar entry is generated for a different timeslot when the focus score meets the threshold; enabling a single-speaker mode that allows one participant to speak at a time, wherein a participant device of the one participant is unmuted and participant devices of non-speaking participants are muted; facilitating the conference between the participant device of the one participant and the participant devices of the non-speaking participants in the single-speaker mode; and disabling a video component of the conference for the participant during the timeslot based on the one or more conference settings.

**15.** The non-transitory computer-readable medium of claim 14, wherein the conference includes a screen share component, the operations further comprising: disabling the screen share component of the conference for the participant during the timeslot based on the one or more conference settings.

**16.** The non-transitory computer-readable medium of claim 14, wherein the conference includes a whiteboard component, the operations further comprising: disabling the whiteboard component of the conference for the participant during the timeslot based on the one or more conference settings.

**17.** The non-transitory computer-readable medium of claim 14, the operations further comprising: detecting that a connection between a client device of the participant and the conference is lost; and automatically restoring the connection between the client device of the participant and the conference.

**18.** The non-transitory computer-readable medium of claim 14, the operations further comprising: detecting that a connection between a client device of the participant and the conference is lost; transmitting a reconnection message to the client device of the participant; and automatically restoring the connection between the client device of the participant and the conference.

**19.** The non-transitory computer-readable medium of claim 14, the operations further comprising: detecting that a connection between a client device of the participant and the conference is lost; receiving a reconnection message from the client device of the participant; and automatically restoring the connection between the client device of the participant and the conference based on the reconnection message.

**20.** The non-transitory computer-readable medium of claim 14, the operations further comprising: obtaining, for each participant of participants of the conference, respective conference preference

information (CPI) associated with the timeslot, wherein the CPI of a participant of the participants indicates that the participant is in-transit during the timeslot.

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