

US 20030233417A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2003/0233417 A1 Beyda et al. (43) Pub. Date: Dec. 18, 2003

(54) SYSTEM AND METHOD FOR SIGNALING USING INSTANT MESSAGING IN MULTIMEDIA TELEPHONY-OVER-LAN CONFERENCES

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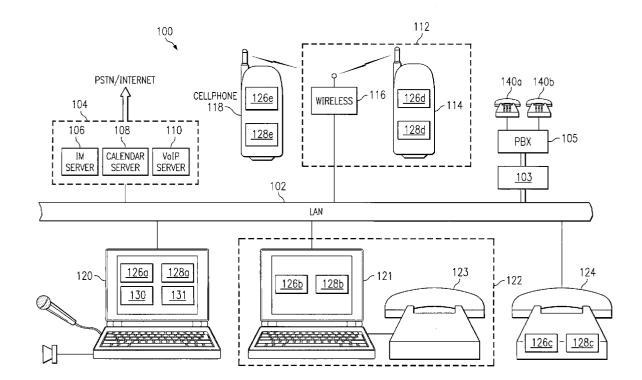
(21) Appl. No.: 10/174,261

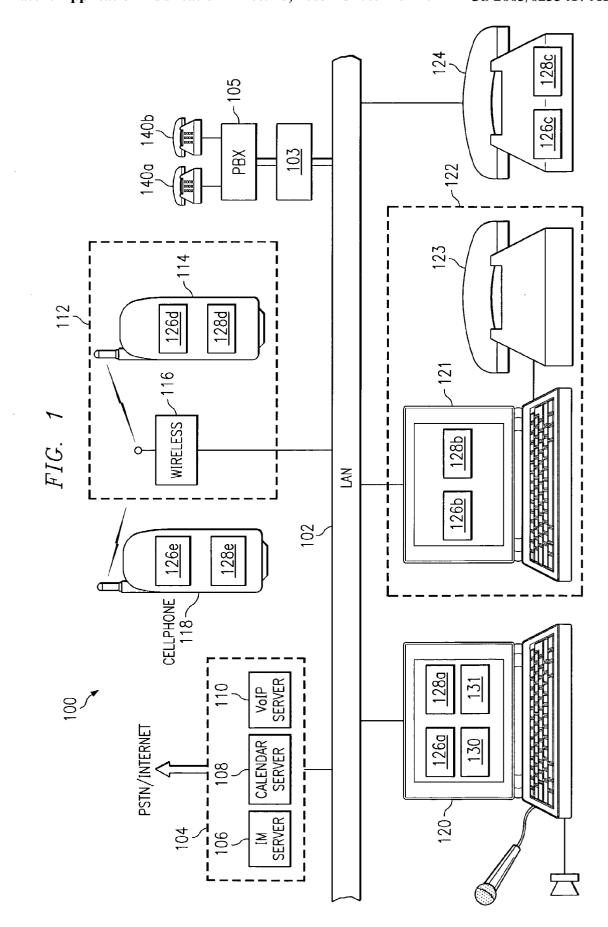
(22) Filed: Jun. 17, 2002

Publication Classification

(57) ABSTRACT

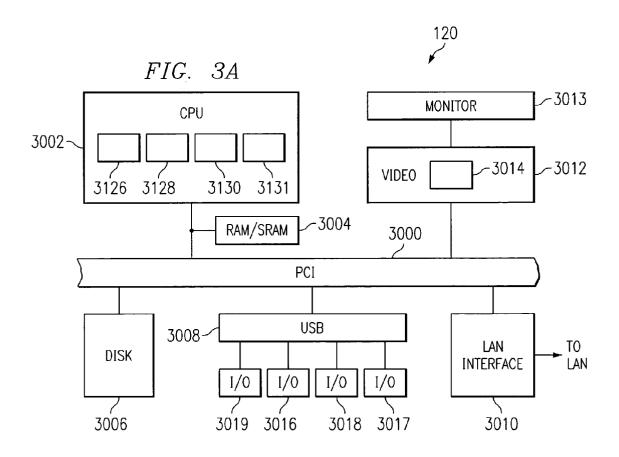
A telecommunications system according to an embodiment of the present invention includes an instant messaging (IM) server (106) and a VoIP server (110); and a plurality of system clients having both VoIP and IM sub-clients. The system clients can log on to their respective servers in parallel. The IM server (106) and the VoIP server (110) can communicate lists of common participants and allow for IM conferences among at least subsets of the system clients while an audio or video teleconference is ongoing.

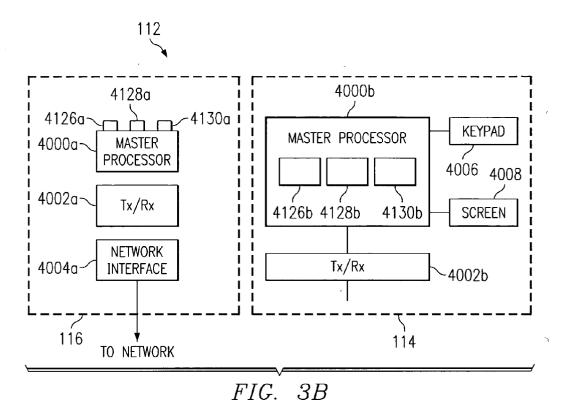




Unify Exhibit 1009-2

FIG. 2 126~ **TELEPHONY** APPLICATION 130 CALENDAR APPLICATION IM **APPLICATION** 128-





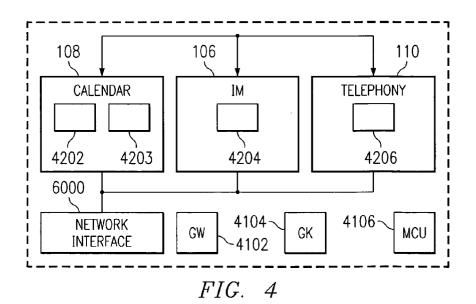
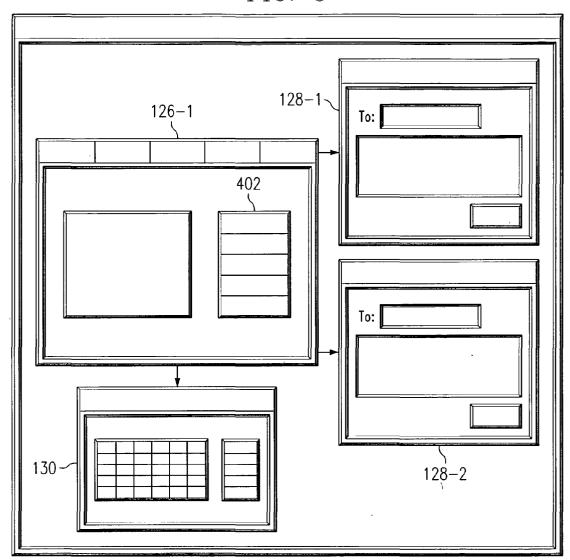
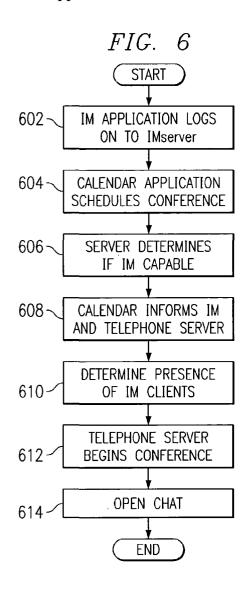
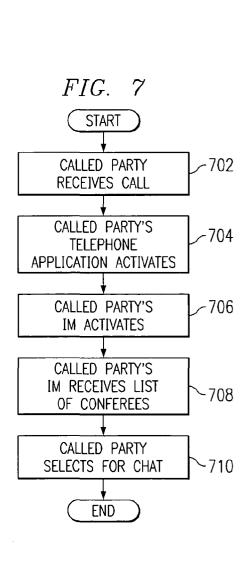
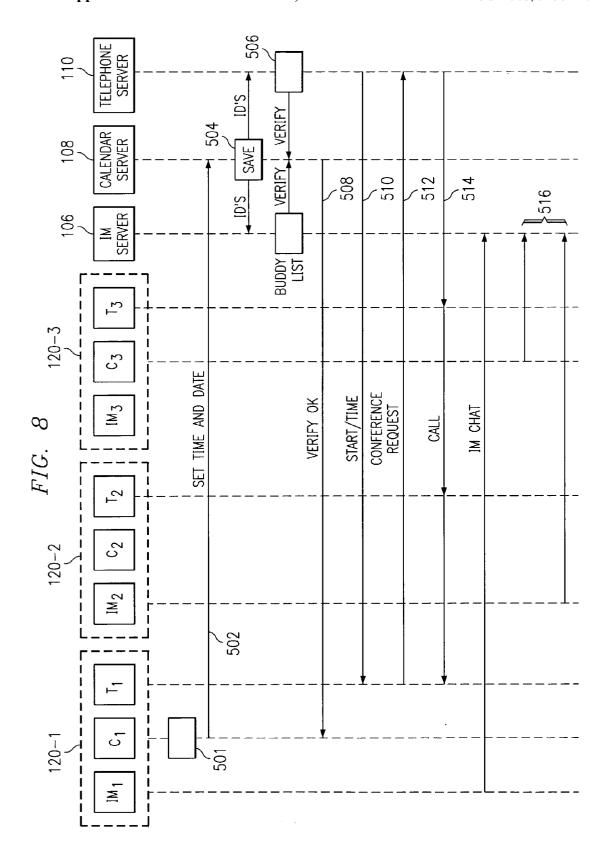


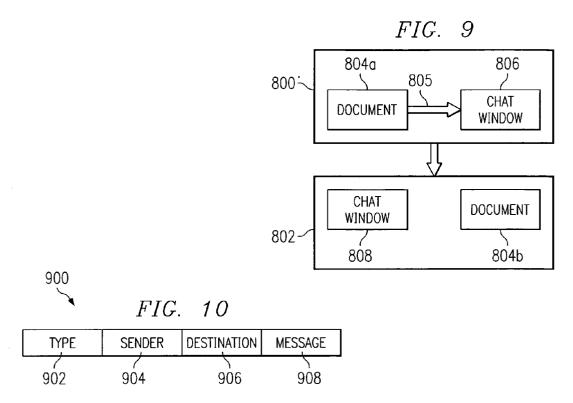
FIG. 5

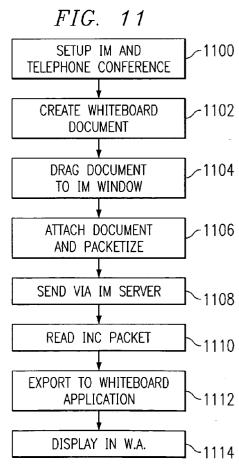


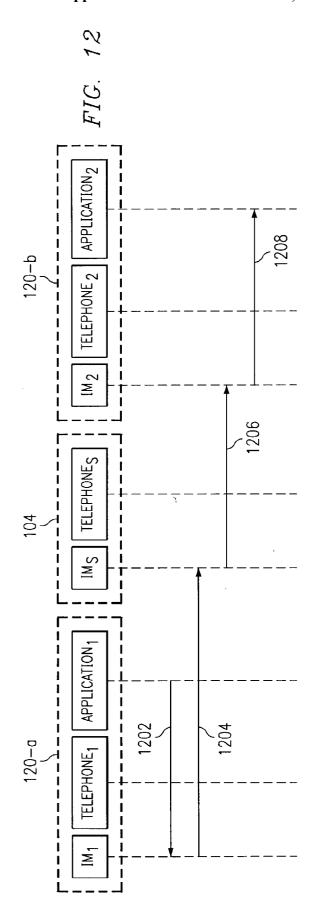


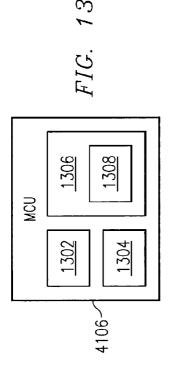


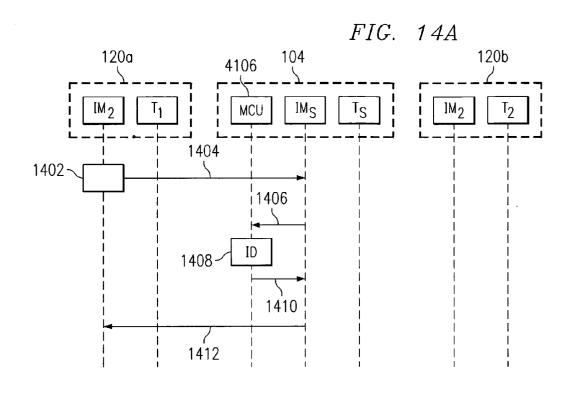


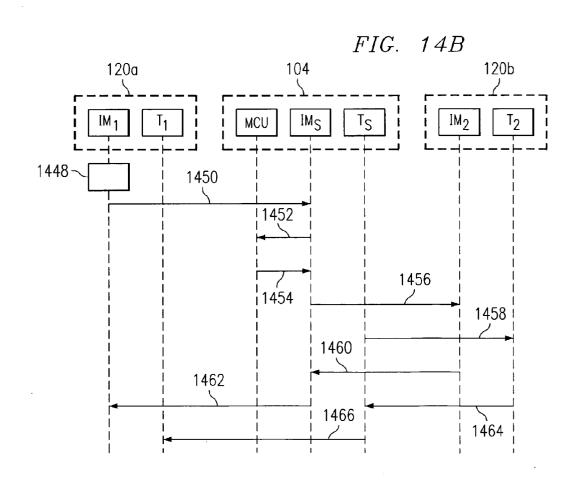


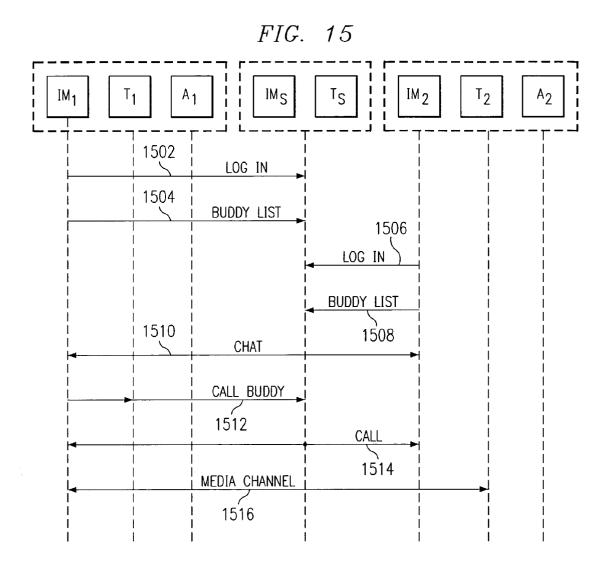












SYSTEM AND METHOD FOR SIGNALING USING INSTANT MESSAGING IN MULTIMEDIA TELEPHONY-OVER-LAN CONFERENCES

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is related to concurrently-filed and commonly-owned patent application Ser. No.______, (Attorney Docket: 2002P02748US) titled "System and Method for Collaborating Using Instant Messaging in Multimedia Telephony-over-LAN Conferences."

BACKGROUND OF THE INVENTION

[0002] 1. Field of the Invention

[0003] The present invention relates to telecommunications devices and, in particular, to an improved system and method for multimedia telephony-over-LAN conferences.

[0004] 2. Description of the Related Art

[0005] An effective and user-friendly way to conduct multimedia audio and/or video teleconferences has long been sought. The promulgation of the H.323 Recommendation and the Session Initiation Protocol (SIP), as well as other multimedia packet protocols, have raised hopes that multimedia audio and video conferencing may yet reach their full potentials. Typically, to teleconference using such systems, users must log in to a teleconferencing server, identify themselves as authorized parties, and be scheduled for the conference.

[0006] Instant Messaging (IM) allows users to log in to an Instant Messaging server and conduct a text-based "chat" session with groups associated with a user's "buddy" lists. Typically, a user logs in to the server, identifies themselves as being present, uploads a "buddy" list, and then is invited to chat with those on the buddy list.

[0007] Telephony systems and instant messaging systems both have advantages and circumstances of use in which one or the other might be more desirable. Typically, telephony systems and instant messaging systems are discrete systems requiring users to learn different sets of procedures for effective usage of each. Further, such systems do not typically allow for cross-system interaction. For example, while a user could establish an instant messaging session with a party while in the middle of a teleconference with that party, the instant messaging session would be wholly independent of the teleconference.

[0008] As such, there is a need for a telecommunications system having a greater integration of instant messaging and teleconferencing. There is a still further need for such a system to have a relatively high level of ease of use.

SUMMARY OF THE INVENTION

[0009] These and other problems in the prior art are overcome in large part by a system and method according to the present invention.

[0010] A telecommunications system according to an embodiment of the present invention includes a packet network; a plurality of network clients operably coupled to the packet network, the network clients including a plurality of telephony clients and an associated plurality of Instant

Messaging clients. Signaling for the telephony clients is adapted to be provided by the Instant Messaging clients using Instant Messaging channels.

[0011] In certain embodiments, the Instant Messaging channels carry the telephony call set up and signaling. In other embodiments, the telephony call setup and signaling is separate, but applications such as whiteboarding use the Instant Messaging channels.

[0012] A telecommunications method according to an embodiment of the present invention comprises establishing an instant messaging session among a plurality of users; and using an instant messaging channel of the instant messaging session to establish a multimedia over IP session among the users. In certain embodiments, the multimedia over IP session comprises a whiteboarding session during a preestablished multimedia session. Sending the whiteboarding session comprises sending a whiteboarding document in a chat window of the instant messaging session and identifying the whiteboarding document as a whiteboarding document and including size and type information. On receiving, the receiving client reads the size and type information and provides the whiteboarding document to a whiteboarding application before it can be opened in a receive chat window.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] A better understanding of the invention is obtained when the following detailed description is considered in conjunction with the following drawings in which:

[0014] FIG. 1 is a block diagram of a telecommunications system according to an embodiment of the present invention:

[0015] FIG. 2 is a block diagram of an exemplary telecommunications client according to an embodiment of the present invention;

[0016] FIG. 3A and FIG. 3B are more detailed block diagrams of telecommunications clients according to embodiments of the present invention;

[0017] FIG. 4 is a block diagram of an exemplary telecommunications server according to an embodiment of the present invention;

[0018] FIG. 5 is a diagram illustrating an exemplary graphical user interface according to an embodiment of the present invention;

[0019] FIG. 6 is a flow diagram illustrating operation of an embodiment of the present invention;

[0020] FIG. 7 is a flow diagram illustrating operation of an embodiment of the present invention;

[0021] FIG. 8 is a diagram illustrating signaling according to an embodiment of the present invention;

[0022] FIG. 9 is a diagram illustrating an exemplary graphical user interface according to an embodiment of the present invention;

[0023] FIG. 10 is a diagram illustrating an exemplary data element according to an embodiment of the present invention:

[0024] FIG. 11 is a flow diagram illustrating operation of an embodiment of the present invention;

[0025] FIG. 12 is a diagram illustrating signaling according to an embodiment of the present invention

[0026] FIG. 13 is a block diagram of an MCU according to an embodiment of the present invention;

[0027] FIG. 14A and FIG. 14B are diagrams illustrating signaling according to embodiments of the present invention; and

[0028] FIG. 15 is a diagram illustrating signaling according to an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0029] Turning now to the drawings and, with particular attention to FIG. 1, a diagram of a telecommunications system 100 according to an embodiment of the present invention is shown. The telecommunications system 100 includes a packet network such as a LAN 102 to which are coupled a plurality of network devices. In particular, shown are a server 104, which includes an Instant Messaging server 106, a calendar server 108, and a telephony server 110. In the embodiment illustrated, the server 104 couples to the Public Switched Telephone Network (PSTN) or Internet. The server 104 may also include gateway and gatekeeper, as well as multipoint control unit functionality. It is noted that, while a single server 104 is shown, the server functionality may also be implemented using a plurality of individual servers coupled to the LAN 102. Thus, the figures are exemplary only.

[0030] The telecommunications system also includes a plurality of network clients, which may be implemented in a variety of configurations. For example, shown are a wireless telephone 112, including a cordless base station 116 and a handset 114; a cellular telephone 118, which couples in through a cellular network (not shown) and the PSTN; a LAN telephone 124; a computer 120 implementing a telephony application program; and a network client 122 implementing a CTI (computer-telephony integration) type system, including a computer 121 and a coupled telephone 123.

[0031] The network clients 120, 122, 124, 118, 112 implement telephony sub-clients 126a-126e, respectively, and Instant Messaging sub-clients 128a-128e, respectively, as will be explained in greater detail below. More particularly, as shown in FIG. 2, each illustrated network client includes a telephony sub-client 126, an Instant Messaging sub-client 128, and a calendaring application 130. A client 120 may also implement a graphical user interface 131. In operation, the telephony sub-client or application 126 provides telephone functionality according to the appropriate standard for each device, e.g., an IP telephony standard for transmittal on the LAN 102. For example, in some embodiments, the telephony sub-clients 126 implement the H.323 Recommendation or the Session Initiation Protocol (SIP), although other packet multimedia protocols may be employed. The Instant Messaging sub-clients 128 implement an appropriate Instant Messaging standard. As noted above, suitable Instant Messaging standards include the Netscape AOL Instant Messenger, AT&T Instant Messenger, Yahoo! Pager, or Microsoft Instant Messenger. The calendar application 130 functions with the calendaring server 108, such as Microsoft Exchange server, to schedule teleconferences and chat sessions, as will be explained in greater detail below. Suitable calendar software includes Microsoft Outlook.

[0032] Also coupled to the LAN 101 may be a telephony feature access server or device 103 which couples the LAN 101 to a PBX 105, such as a Hicom PBX. A variety of PBX telephony devices 140a, 140b may also couple to the PBX 105. Devices on the network 102 may be configured to obtain their telephony services through the PBX 105 via the TFA 103. An exemplary telephony feature access server is the Hicom Feature Access server, available from Siemens Corp., and employing the Cornet protocol. In certain embodiments, the TFA 103 may be equipped with Instant Messaging, calendaring, and VoIP capabilities in accordance with the present invention, either as a server or a network device. In what follows, for sake of simplicity, the description will focus primarily on the server 104, it being understood that the teachings of the present invention are equally applicable to the TFA 103.

[0033] FIGS. 3A and FIG. 3B are block diagrams of exemplary network clients according to embodiments of the present invention. In particular, the client 120 of FIG. 3A is exemplary of a personal computer coupled to the network via a network interface card (or wireless network interface card). As shown, the network client 120 includes a bus 3000, such as a PCI bus. Coupled to the bus 3000 are one or more processors 3002; memory 3004, such as RAM or SRAM; a disk drive 3006; one or more Universal Serial Bus interfaces 3008; a video interface 3012; and a LAN interface 3010.

[0034] The processor 3002 may be implemented as any of a variety of processors or controllers, including one or more x86 or Pentium-type processors and/or one or more digital signal processors. The processor 3002 implements an IM client 3126, a telephony client 3128, and a calendar client 3130, according to the present invention. The software for implementing the clients may be stored on the disk drive 3006 and memory 3004 in a known manner. The video interface 3012 may couple to a monitor 3013 and display a graphical user interface 3014 executable by the processor 3002 for use with the software clients. The USB interface(s) 308 interface to I/O devices, such as microphone 3016, speaker(s) 3018 and a keyboard 3017 and/or cursor input device 3019. The processor may also implement a graphical user interface 3131, as will be described in greater detail below.

[0035] Finally, as noted above, a network interface 3010 interfaces the network client to a network, such as a local area network (LAN). The network interface 3010 may be implemented as a wireless or wired interface. It is noted that the network client 122 (FIG. 1) is generally similar, though the telephone functionality is provided by the coupled telephone 123 rather than the software client.

[0036] FIG. 3B illustrates another embodiment of the network client and, particularly, a wireless client 112. The wireless client 112 may be embodied, for example, as any wireless telephone system, including a DECT system or other system functioning, for example, in the 2.4 GHz range. The network client 112 includes a base station 116 and one or more handsets or portable units 114. For convenience, only one such handset 114 is shown.

[0037] The base station 116 includes a master processor 4000a, a transceiver 4002a, and a network interface 4004a. In certain embodiments, both the base station 114 and the handset 116 may be used to make telephone calls. Thus, the master processor may implement an IM client 4126a, a

telephony client 4128a, and a calendar client 4130a according to embodiments of the present invention. Typically, the clients are implemented as programs stored in memory (not shown). In such an embodiment, the base station 114 will also include a display (not shown), such as an LCD display, and a keypad (not shown). In other embodiments, the base station 114 is not used directly for user interaction and thus does not include a display or full IM client, telephony client and calendar client functionality.

[0038] The transceiver 4002a functions to implement coding and decoding and generally to communicate with the handsets 114. The network interface 4004a interfaces the network client 112 to the network. Thus, the network interface may be a local area network interface.

[0039] The handset 114 includes a master processor 4000b, a transceiver 4002b, a keypad 4006, and a display 4008. It is noted that in certain embodiments, the keypad is implemented as a "virtual" touch screen on the display 4008. Thus the figure is exemplary only. The display is used to implement a graphical user interface for IM, telephony and calendar functionality, as will be explained in greater detail below.

[0040] The master processor 4000b includes a IM client 4126b, a telephony client 4128b, and a calendar client 4130b, as will be explained in greater detail below. Typically, the clients are implemented as programs stored in memory (not shown).

[0041] As will be explained in greater detail below, in operation, the user can use the keypad and screen 4006, 4008 to set a date and parties for a conference. The network server 104 then acts to set up and coordinate the conference

[0042] It is noted that a cellular telephone or PDA 118 according to embodiments of the present invention is configured generally similarly. Typical cellular telephone standards include GSM and IS-136 TDMA.

[0043] FIG. 4 is a block diagram of an exemplary network server according to an embodiment of the present invention. As shown, the server includes an IM server 106, a calendar server 108, and a telephony server 110. The server further includes on or more network interfaces 6000 for interfacing the servers to the local area network.

[0044] The calendar server 108 implements a central calendar application 4202 which is used to schedule teleconferences from network clients. The calendar server 108 thus further includes a memory 4203 for storing configuration information, such as lists of clients, and times of conferences, including the appropriate parties. In operation, the calendar application 4202 receives a request for a conference and stores the date and parties in the memory. The conference is then communicated to the IM server 106 and the telephony server 110.

[0045] The IM server 106 likewise includes a memory 4204 for storing configuration information and for receiving "buddy" lists from IM clients. In operation, the IM client activates chat sessions among at least a subset of the parties to the teleconference, in some embodiments, receiving messages and retransmitting them to other chat parties.

[0046] The telephony server 110 also includes a memory 4206 for storing configuration information and calling and called party information. In operation, the telephony server

receives the conference appointment time from the calendar server 108 and, at the appointed time, either arranges the system for the conference or transmits a request to the host user to begin the conference.

[0047] In addition, the server may include gateway 4102 and gatekeeper functionality 4104 (in an embodiment employing H.323), as well as multipoint control unit (MCU) 4106 functionality. Finally, while illustrated as a single server, each of the IM server, calendar server, and the telephony server, and the various other components, could be implemented as discrete units. Thus, the figure is exemplary only.

[0048] Operation of an embodiment of the present invention is explained with reference to FIG. 5 and FIG. 6. In the discussion that follows, network client 120 shall be referred to, it being understood that the teachings of the present invention are equally applicable to the other network clients and their functionality generally similar.

[0049] As shown in FIG. 5, the telephony client 126, the instant messaging client 128, and the calendar application 130 may be implemented including a graphical user interface. In operation, the user may activate one or more instant messaging windows 128-1, 128-2 and one or more calendar windows 130. In a typical embodiment, the calendar application 130 and the instant messaging windows 128-1, 128-2 are opened from within the telephony application 126-1. Thus, these applications may form an integrated part of the telephony application, or may be implemented using plugins. In other embodiments, these applications may be implemented using separate applications that are nonetheless adapted to communicate with one another. In still other embodiments, the calendar application or the instant messaging applications may be opened first, and the other applications from them. In the embodiment illustrated, the application further includes an address book or buddy list

[0050] FIG. 6 is a flow diagram illustrating operation of an embodiment of the present invention. As shown, in 602, the IM application 128 is used to log on and provide a buddy list to the IM server 106. In 604, the calendar application 130 is used to schedule a teleconference using the calendar server 108. For example, the user may set a date and identify the parties to the teleconference, and the parties may be informed of the time of the conference. At 606, the server determines if the parties to the teleconference have IM capability. It is noted that in certain embodiments, the party information may be handed off to the IM server 106 or the telephony server 110 for them to make this determination. In 608, the calendar server 108 informs the IM server and the telephony server of the conference. This can occur at or before the scheduled time of the conference; and may occur before step 606. At 610, the IM server determines a presence of IM clients, at the time of the conference. At 612, the telephony server 110 begins the conference by calling all parties, i.e., by communicating with the telephone clients. At **614**, the chat channels are opened.

[0051] It is noted that, in certain embodiments, at the time of the conference, the party who called the conference may be contacted by the calendar server (e.g., via a pop up message box) and given the option of starting the conference or delaying it (i.e., if not all participants are present.).

[0052] FIG. 7 is a flowchart illustrating handling when a user or network client receives a conference call in embodi-

ments of the present invention. In a step 702, the called party receives the call, i.e., a call request and call setup signaling. In step 704, the called party's telephony application activates and proceeds with appropriate handshake signaling to establish the call. In step 706, the called party's IM application activates. For example, this may occur automatically, or the called party may manually click on an associated IM icon. In 708, the called party's IM application receives the list of participants to the conference. Finally, in step 708, the called party can select from the list to establish a chat session with various of the participants.

[0053] Turning now to FIG. 8, a diagram illustrating operation of an embodiment of the invention in greater detail is shown. Shown are a plurality of network clients 120-1, 120-2, 120-3, an IM server 106, a calendar server 108, and a telephony server 110. The network client 120-1 includes an IM application IM1, calendar application C1, and telephony application IM2, calendar application C2, and telephony application T2; and the network client 120-3 includes an IM application IM3, calendar application C3, and telephony application IM3, calendar application C3, and telephony application T3.

[0054] In the example illustrated, it is assumed that the conference is set up at the behest of the user of network client 120-1. Initially, at 501, the user at network client 120-1 activates his calendar application C1 to set a time and date for the teleconference. As noted above, any calendar application may be used. One such application is Microsoft Outlook. At 502, the time and date are then uploaded to the calendar server 108. A suitable calendar server is the Microsoft Exchange server.

[0055] In certain embodiments, the identity of the other parties to the conference is also uploaded to the server. Thus, in 504, the calendar server 108 saves the time, date and the party information. At 506, the IM server 106 and the telephony server 110 may verify the parties identified.

[0056] Next, in 508, the calendar server 108 sends an acknowledgement to the calendar application C1 that set the conference. At 510, the calendar server 108 sends a message to the network client at the conference time, indicating that the conference is to begin. In response, at 512, the telephony client T1 sends a conference request message to the telephony server 110. At 514, the telephony server responds to set up the call to the originator and the other telephony clients T2, T3. The teleconference would typically be implemented in a multicast mode. The instant messaging client IM1 then logs on to the instant messaging server 106, at 514. Then, at 516, the other instant messaging applications of parties to the conference log in. The users are then able to maintain a chat session with other parties while the teleconference is ongoing.

[0057] It is noted that, in certain embodiments, the calendar application C1 informs the other applications IM1 and T1 of the time and scheduling of the conference. The telephony application T1 and the IM client IM1 then begin the conference at the appointed time.

[0058] In certain embodiments of the present invention, signaling for a teleconference may be provided over the instant messaging channel. For example, in one embodiment, the instant messaging channel and system may be used to convey "whiteboarding" documents. "Whiteboarding

documents" is a generic term for word processing, spreadsheet, presentation, or similar documents that may be used in a conference and "marked up" by various of the parties to the conference. In such an embodiment, the user can "drag" the whiteboard document to the Instant Messaging window, have the document converted into an Instant Messaging transmission format, sent along the Instant Messaging channel, and received and displayed at the other end. Typically, the document will be "intercepted" before the Instant Messaging window tries to open it, such that it can be displayed in the appropriate application's window.

[0059] For example, FIG. 9 illustrates a GUI 800 having a whiteboarding document 804a and a chat or instant messaging window 806. The user drags the document into the chat window, as represented by the arrow 805. In GUI 802, representative of a receiving client, the chat window 808 is shown, with the newly received document 804b in its own window.

[0060] In operation, the whiteboarding document is packaged into an instant messaging format for transmission on the instant messaging channel. A protocol element identifies the packets as belonging to a whiteboarding application. One such protocol element is shown in FIG. 10. As shown, the element 900 includes a type field 902, a sender field 904, a destination field 906, and a message or payload field 908. The type field 902 identifies the package as belonging to a whiteboarding application and allows the receiving Instant Messaging application to port the received document to the appropriate application program.

[0061] FIG. 11 is a flow diagram illustrating operation of an embodiment of the present invention. At 1100, a teleconference including Instant Messaging is set up, for example, in the manner described above. In step 1102, a user creates a whiteboarding document, for example, through use of a word processing or spreadsheet application. At step 1104, the user drags the document to the chat window of the Instant Messaging application. At step 1106, the Instant Messaging application identifies the type of document and packages it into the Instant Messaging transmission format. At step 1108, the document is sent to the destination via the Instant Messaging server. At step 1110, the document is received and the packet type is read by the Instant Messaging application. Because the Instant Messaging application identifies the document as a whiteboarding document, it is exported to the appropriate application at 1112. Finally, at 1114, the document is displayed in the appropriate application window.

[0062] Turning now to FIG. 12, a signaling diagram illustrating operation of an embodiment of the present invention is shown. Shown are a client 120a, a client 120b, and a server 104. The client 120a includes an Instant Messaging application IM1, a telephony application T1, and a whiteboarding application A1. Similarly, the client 120b includes an Instant Messaging application IM2, a telephony application T2, and a whiteboarding application A2. The server 104 includes an Instant Messaging server IMS and a telephony server Ts.

[0063] At 1202, the application document is loaded from the application A1 to the Instant Messaging program IM1. At 1204, the Instant Messaging program IM1 sends the document to the Instant Messaging server IMs. At 1206, the Instant Messaging server sends the document to the desti-

nation Instant Messaging application IM2. The Instant Messaging application IM2 then reads the header information and transfer the document to the application A2, at 1208. The document can then be marked up by the client at 120b and sent back.

[0064] In certain embodiments of the present invention, the multipoint control unit (MCU) 4106 (FIG. 4) may itself be a party to the IM session. As noted above, the MCU 4106 may be implemented as a unit of the server or as a standalone unit. Such an exemplary MCU 4106 is shown in FIG. 13. The MCU 4106 includes a multipoint controller 1302, a multipoint chat engine 1304, and one or more memories 1306. The multipoint controller 1302 functions to implement a multicast protocol, such as the IP multicast protocol or other multicast technique. The memory 1306 is used to store configuration information, and the like.

[0065] In operation, the MCU 4106 may be added as a party to the IM session automatically upon the start of the conference by the server. The MCU 4106 may then be able to respond to requests from users sent during the chat. For example, the MCU 4106 may automatically respond to requests, such as "Identify parties", to which the MCU 4106 responds by sending an IM message back with the list of parties. Similarly, a party to the conference could send an IM message, "Please call 555-1111," whereupon the MCU 4106 would respond by calling the number.

[0066] To do so, the memory 1306 may be used to store one or more configuration tables 1308 of commands and actions to be undertaken in response. When a chat message is received by the MCU 4106, the contents of the message are perused by the IM engine 1304 to determine if an actionable command is contained therein. To read a command in a chat message, the IM chat engine 1304 can be implemented in a variety of ways. For example, the text message may include a command prefix or may simply include a predetermined text sequence. If a command is identified, then the action is carried out by the MCU controller 1302.

[0067] A signaling diagram illustrating operation of an MCU according to an embodiment of the present invention is shown in FIG. 14A. In particular, shown is signaling for execution of the identification command described above. Shown are a client 120a, a client 120b, and a server 104. The client 120a includes an Instant Messaging application IM1 and a telephony application T1. Similarly, the client 120b includes an Instant Messaging application IM2 and a telephony application T2. The server 104 includes an Instant Messaging server IMS and a telephony server Ts, as well as an MCU 4106. It is noted that the MCU 4106 could form a part of a separate network entity.

[0068] At 1402, the user types in the Identify command into the Instant Messaging window. At 1404, the Instant Messaging application recognizes the entry as a functional command and transmits it to the Instant Messaging server Ims. At 1406, the Instant Messaging server Ims likewise receives and decodes the command, sending it to the MCU 106. At 1408, the MCU identifies the parties to the conference, and sends the information to the Instant Messaging server at 1410. Finally, at 1412, the Instant Messaging server IMS sends the information to the requesting party.

[0069] A signaling diagram illustrating operation of an MCU according to an embodiment of the present invention

is shown in FIG. 14B. In particular, shown is the signaling for using the MCU as party to the chat session to call another party. Shown are a client 120a, a client 120b, and a server 104. The client 120a includes an Instant Messaging application IM1 and a telephony application T1. Similarly, the client 120b includes an Instant Messaging application IM2 and a telephony application T2. The server 104 includes an Instant Messaging server IMS and a telephony server Ts, as well as an MCU 106.

[0070] At 1448, the user types in the Call command in the instant messaging window. At 1450, the Instant Messaging application IM1 sends the command to the server Ims. At 1452, the Instant Messaging server IMS sends the command to the MCU. At 1454, the MCU reads the command and directs the Instant Messaging server to start a chat with the Instant Messaging application IM21456 and a telephone connection at 1458. The Instant Messaging destination application IM2 and telephone application T2 are connected to the servers at 1460, 1464, respectively. The applications at client 120a are connected at 1462, 1466.

[0071] While an Instant Messaging channel can be used for whitebaording applications, or via the MCU for call signaling purposes, the Instant Messaging channel can also be used for initial teleconference signaling. Shown in FIG. 15 is signaling for such an embodiment. Shown are a client 120a, a client 120b, and a server 104. The client 120a includes an Instant Messaging application IM1 and a telephony application T1. Similarly, the client 120b includes an Instant Messaging application IM2 and a telephony application T2. The server 104 includes an Instant Messaging server IMS and a telephony server Ts.

[0072] At 1502, the Instant Messaging application IM1 logs in to the Instant Messaging server Ims, and sends its buddy list at 1504. Similarly, the Instant Messaging application IM2 logs in at 1506 and sends its buddy list at 1508. The chat is opened between the parties at 1510.

[0073] Next, if it desired to open a telephone call, the user at client 120a can type in or otherwise enter a command in the Instant Messenger application to call the party with whom the user is chatting. The command is sent to the Instant Messaging server IMS at 1512. The Instant Messaging server reads the command and sends it to the telephony server TS, which then calls the parties, at 1514. Finally, at 1516, the media channel is opened.

[0074] The invention described in the above detailed description is not intended to be limited to the specific form set forth herein, but is intended to cover such alternatives, modifications and equivalents as can reasonably be included within the spirit and scope of the appended claims.

What is claimed is:

- 1. A telecommunications method, comprising:
- establishing an instant messaging session among a plurality of users;
- using an instant messaging channel of said instant messaging session to establish a multimedia over IP session among said users.
- 2. A telecommunications method in accordance with claim 1, wherein said multimedia over IP session comprises establishing an initial multimedia conference.

- 3. A telecommunications method in accordance with claim 1, wherein said multimedia over IP session comprises a whiteboarding session during a pre-established multimedia session.
- 4. A telecommunications method in accordance with claim 3, wherein said whiteboarding session comprises sending a whiteboarding document in a chat window of said instant messaging session.
- 5. A telecommunications method in accordance with claim 4, wherein sending said whiteboarding document comprises identifying said whiteboarding document as a whiteboarding document and including size and type information
- 6. A telecommunications method in accordance with claim 5, wherein receiving said whiteboarding document comprises reading said size and type information and providing said whiteboarding document to a whiteboarding application before opening said whiteboarding document in a receive chat window.
 - 7. A telecommunications device, comprising:
 - a multimedia packet network client;
 - an Instant Messaging client, said Instant Messaging client adapted to provide signaling control for said multimedia packet client.
- **8**. A telecommunications device in accordance with claim 7, wherein said signaling control comprises providing set up signaling control for a multimedia session.
- **9.** A telecommunications device in accordance with claim 7, wherein said signaling control comprises providing signaling control for a whiteboarding document to be sent during a pre-established multimedia conference.
- 10. A telecommunications device in accordance with claim 9, wherein sending a whiteboarding document comprises sending said whiteboarding document in a chat window of said instant messaging session.
- 11. A telecommunications device in accordance with claim 10, wherein sending said whiteboarding document comprises identifying said whiteboarding document as a whiteboarding document and including size and type information.
- 12. A telecommunications device in accordance with claim 11, wherein receiving said whiteboarding document comprises reading said size and type information and pro-

- viding said whiteboarding document to a whiteboarding application before opening said whiteboarding document in a receive chat window
 - 13. A telecommunications system, comprising:
 - a packet network;
 - a plurality of network clients operably coupled to said network, said network clients including a plurality of telephony clients and an associated plurality of Instant Messaging clients;
 - a teleconferencing server operably coupled to said packet network; and
 - an Instant Messaging server operably coupled to said packet network;
 - wherein signaling for said telephony clients is adapted to be provided by said Instant Messaging clients.
- 14. A telecommunications system in accordance with claim 13, wherein said signaling comprises set up signaling control for a multimedia session.
- 15. A telecommunications system in accordance with claim 13, wherein said signaling comprises signaling for a whiteboarding document to be sent during a pre-established multimedia conference.
- 16. A telecommunications system in accordance with claim 15, wherein sending a whiteboarding document comprises sending said whiteboarding document in a chat window of said instant messaging client.
- 17. A telecommunications system in accordance with claim 16, wherein sending said whiteboarding document comprises identifying said whiteboarding document as a whiteboarding document and including size and type information.
- 18. A telecommunications system in accordance with claim 16, wherein receiving said whiteboarding document comprises reading said size and type information and providing said whiteboarding document to a whiteboarding application before opening said whiteboarding document in a receive chat window.
- 19. A telecommunications system in accordance with claim 13, wherein said signaling is provided via a multipoint conferencing unit.

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