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(54) **SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION**

(75) Inventors: **Kwok Wai Cheung**, Tai Po (CN); **Peter P. Tong**, Mountain View, CA (US); **C. Douglass Thomas**, Campbell, CA (US)

(73) Assignee: **IpVenture, Inc.**, Los Altos, CA (US)

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(57)   **ABSTRACT**

A computer-implemented system and method to manage the communication of a user are disclosed. In one embodiment, when a person tries to electronically convey a message to the user, the status of the user, the identity of the person, and the urgency of the message can be identified. The access priority of the person can be determined based on the person's identity. Then, the message can be managed using one or more rules and in view of the status of the user, the access priority of the person and the urgency of the message.

59 Claims, 2 Drawing Sheets

ContactClass1	Kinship family members, love ones
ContactClass2	Relatives and friends
ContactClass3	Boss and VIP
ContactClass4	Colleagues
ContactClass5	Subordinates
ContactClass6	Business acquaintances
ContactClass7	VIP Clients
ContactClass8	Clients
ContactClass9	Secretary
ContactClass10	User defined

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ICM		Default
1	Mobile phone	Voice mail
2	Office phone	Voice mail
3	Home phone	Voice mail
4	Mobile SMS/pager from mobile phone or PDA	Email
5	Home/office SMS (to office/home PC)	Email
6	Mobile Online chat (to mobile phone or PDA)	Voice mail
7	Home Online chat (Net Meeting, AOL, ICQ etc.)	Voice mail
8	Voice mail with instant notification to mobile devices of the user	
9	Voice mail without notification to mobile devices	
10	Office fax	
11	Home fax	Reject
12	Mobile Email (Blackberry etc.)	Email
13	Email	Reject
14	User defined	

FIGURE 1

ContactClass1	Kinship family members, love ones
ContactClass2	Relatives and friends
ContactClass3	Boss and VIP
ContactClass4	Colleagues
ContactClass5	Subordinates
ContactClass6	Business acquaintances
ContactClass7	VIP Clients
ContactClass8	Clients
ContactClass9	Secretary
ContactClass10	User defined

FIGURE 2

UrgClass1	Life threatening – interrupt at any time and occasion
UrgClass2	Urgent confirmed meeting reminder – interruption allowed
UrgClass3	Urgent matter requiring immediate attention
UrgClass4	Important matter requiring quick attention
UrgClass5	Regular work related matter
UrgClass6	Casual contact
UrgClass7	Cold calls from unknown person
UrgClass8	User defined

FIGURE 3

MyBusyState1	Important meeting
MyBusyState2	Ordinary meeting
MyBusyState3	Available
MyBusyState4	Sleeping
MyBusyState5	Resting
MyBusyState6	User defined

FIGURE 4

ContactClass	UrgClass	MyBusyState	ICM allowed
ContactClass2	UrgClass1-3	All	All
	UrgClass4-6	MyBusyState1	All
		MyBusyState2-3	All
		MyBusyState4-5	All
	UrgClass7-8	All	ICM 13

FIGURE 5

SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 11/452,115, filed Jun. 12, 2006, now U.S. Pat. No. 7,729,688, and entitled "SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION", which is hereby incorporated herein by reference, which application is a continuation-in-part application of U.S. patent application Ser. No. 11/006,343, filed Dec. 7, 2004, now U.S. Pat. No. 7,116,976, and entitled "ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES," which is hereby incorporated herein by reference, which claims priority to U.S. Provisional Patent Application No. 60/527,565, filed Dec. 8, 2003, entitled "ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES," and which is hereby incorporated herein by reference.

This application, by way of U.S. patent application Ser. No. 11/452,115, also claims priority to U.S. Provisional Patent Application No. 60/689,686, filed Jun. 10, 2005, entitled "SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION," and which is hereby incorporated herein by reference.

BACKGROUND OF THE INVENTION

For many years, other than mails from post offices, we typically only received information from afar through telephones. However, in the past few years, ways that others can send us information have increased significantly. Just to list a few different modes of communication, we can be reached from standard desk phones, fax, cell phones, electronic mails, and instant messages. In addition, we can have more than one phone number and multiple electronic mail addresses. There are people we like to communicate with, and there are those we prefer to avoid. Managing information from all such different modes can be quite time consuming.

It should be apparent from the foregoing that there is still a need to help manage the numerous modes of communication.

SUMMARY OF THE INVENTION

Different embodiments of a computer-implemented system and method to manage the communication of a user are disclosed. A person tries to electronically convey a message to the user. In one embodiment, the status of the user is identified; the identity of the person is identified; the urgency of the message is identified; the access priority of the person is determined based on the person's identity; and a process is set to manage the message using one or more rules, and in view of the status of the user, the access priority of the person and the urgency of the message.

Based on different embodiments, the status of the user depends on the current activity or location of the user, or the current time. The status of the user can also be defined by the user. Similarly, the access priority of the person can be defined by the user, or is set depending on the user's reaction towards a prior message from the person. Also, the urgency of the message is set by the person.

The process can depend on the mode of communication of the message. For example, the mode of communication can include a mobile phone, an office phone, a home phone, a mobile SMS, a pager from a mobile phone or PDA, a home/

office SMS, mobile online chat, home online chat, a voice mail with/without instant notification, an office fax, a home fax, a mobile email, and an email.

In one embodiment, the user receives the message through a handheld device, such as a cellular phone. In another embodiment, the message is electronically conveyed based on Internet protocol through a website.

In one embodiment, though the process allows the user to receive the message, the person is not aware of the contact information of the user. For example, the person is not aware of the phone number of the cellular phone that the user used to talk to the person. This prevents the person from directly accessing the user without going through an intermediate control, such as a website. Similarly, the user does not have to be aware of the contact information of the person.

In another embodiment, the defined access priority of the person is stored at a website, allowing the website to access such information without asking for the user's permission. In one embodiment, the defined access priority is stored in a private database under the user's control.

Other aspects and advantages of the present invention will become apparent from the following detailed description, which, when taken in conjunction with the accompanying drawings, illustrates by way of example the principles of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a number of intelligent communication modes according to one embodiment of the invention.

FIG. 2 shows a number of contact classes according to one embodiment of the invention.

FIG. 3 shows a number of urgency classes according to one embodiment of the invention.

FIG. 4 shows a number of statuses of a user according to one embodiment of the invention.

FIG. 5 shows one embodiment of an example of an Access Priority Database according to one embodiment of the invention.

Same numerals in FIGS. 1-5 are assigned to similar elements in all the figures. Embodiments of the invention are discussed below with reference to FIGS. 1-5. However, those skilled in the art will readily appreciate that the detailed description given herein with respect to these figures is for explanatory purposes as the invention extends beyond these limited embodiments.

DETAILED DESCRIPTION OF THE INVENTION

One embodiment of the invention can automatically remove unwanted communications. Certain communications are relatively easy to determine to be unwanted, such as marketing cold calls and wrong number calls. Other communications may be more difficult. They can depend not just on the sources of the communication, but also the conditions or status of the receiver (a user) of the communication. The status can be related to the user's current activity and/or location. For example, when the user is on a train going to work, the user probably does not mind chatting with his grandchild. However, if the user is having his yearly review meeting with his boss, the user probably would prefer to avoid the call from his grandchild, unless it is an emergency. Based on the embodiment, communications from sources the user wants to postpone receiving can be automatically diverted.

In one embodiment, the user can get appropriate notification on the source of the incoming communication request.

The attributes of the notification can depend on the urgency of the communication and/or the status of the user.

The user may receive information from different modes of communication. For example, the user can have mobile phones, fixed lines at home or office, emails, SMS, and faxes, with their different numbers and/or addresses. One embodiment can help the user efficiently manage information from the different modes. The user only has to remember one specific address from one mode of communication. Through that address, the user can receive communications from all modes of communication, independent of where the user is, or the type of hardware the user has. This allows the user to efficiently maintain his communication from the numerous modes even when he is traveling. For example, the user does not have to change phones (and the phone numbers) when he moves from areas covering 3G to areas that do not.

A number of embodiments depend on the different modes of communication converging onto the internet protocol platform. A communication gateway or a portal is formed allowing the user to receive communications from numerous sources through different modes. This, in turn, could reduce the numerous addresses the user has to remember, to one address. For example, an e-mail address for the user can serve as an access identifier for the different communication addresses from different communication modes. The access identifier can become the user's digital identity. In one embodiment, the user's other types of identification, such as the user's driver licenser number, can be the user's access identifier.

One embodiment of the invention uses an open portal based on the web. Based on the portal, the user can securely determine who can reach him at what conditions. This can be done based on a status indicator. As an example, this indicator is determined according to the status of the user, the access priorities of the person trying to reach the user (or the relationship or the lack of relationship between the user and the person), and/or the urgency of the message from the person. The status of the user can be dynamically determined, based on the current condition(s) of the user. The portal can allow the user and the person to select different options, which can be modified as desired. For example, the relationship can be preset by the user and stored in a database, while the urgency of the message can be set by the person.

Thus, in one embodiment, the portal can be used to control the selection and setting of different intelligent communication modes for the user. These intelligent communication modes allow priorities of various kinds of communication options to be set by the user. The portal allows worldwide access to the user, and can dynamically determine, for example, whether a call initiated at different time by different callers should be accepted by the user in real-time or handled by other mechanisms. From this information, communication requests can be classified, for example, into different degrees of undesirability. Some requests can be automatically blocked from the user. Others can be diverted and handled by other mechanism, such as diverting a phone call to an email or voice mail.

In one embodiment, the portal or gateway also includes a database to keep track of the user's different contacts or acquaintances, and the access priorities of each contact. The user can modify information in the database, such as assigning and/or changing the priorities of the contacts. Based on the information (or lack of information) in the database of the contact trying to access the user, and based on the status of user, the gateway can automatically select an intelligent mode of communication for the user. This selection can be done dynamically.

In one embodiment, the portal can dynamically change the access priorities of a caller trying to reach the user. For example, previously the caller is of high priority to the user, and the user has set her access priorities accordingly. Lately, every time the caller trying to reach the user, the request was denied. After a preset number of rejections, the portal can automatically send a message to the user, asking the user if the user would like to lower the access priority of the caller. If the response is affirmative, the caller's priority is automatically reduced.

In another embodiment, the user does not have to set priorities of each contact. The system monitors every call, and provides the contact's identity to the user. Based on the user's reaction to the call (e.g. accepting or rejecting it), the system automatically sets the contact's priorities. In one embodiment, the system can then query the user for approval on the setting, and allow the user to adjust it as necessary. In another embodiment, the system can continue to modify the caller's priorities based on the user's reaction to the caller's subsequent calls.

In one embodiment, the user could keep information he believes to be sensitive local in a different database. Such information can be stored securely under the user's direct control. The portal can retrieve information from the different database when required. In another embodiment, the user can restrict or limit such retrieval process.

Additional confidentiality can be provided. In one embodiment, using phone calls as an example, the user can be aware of the identity of the caller even without being informed of the number of the caller. Similarly, the caller can reach the user without being aware of the number of the phone the user is using to receive the call. The user can keep his location and/or status confidential but still can receive the communication. This can be useful because there are situations, for example, when the user does not want to disclose his contact information but the user needs to receive services provided by the caller.

One approach to maintain such confidentiality while maintaining real-time communication is based on a system that digitally identifies the identities of the caller and the receiver. Note that the term caller is used in general. It is not just limited to phone calls, but they can be any person or entity requesting to communicate with the user, such as trying to send a message to the user. As a separate note, the caller can also be a user of different embodiments of the invention.

After determining the identities, the system can establish connections between the caller and the user in real time. Though contacts are established, the system only needs to ensure the identities of the caller and the user to each other. However, the system does not have to disclose the phone numbers, electronic addresses, physical locations and/or other attributes of the caller and the user to each other. In one embodiment, real time implies that the time required for the identification is similar to the typical time required to set up, for example, a telephone call. The system can be a portal based on the web.

In one embodiment, a portal also holds the user's electronic calendar. The calendar can be programmable, with entries set by the user. The portal can automatically and securely set appointments for the user since the portal knows the identity of the caller, and the status and schedule of the user. For example, the appointment can be for a conference call.

To illustrate, in one embodiment, a portal provides a number of intelligent communication modes (ICM) for the user to select as shown in FIG. 1. There are three columns in the table. If the communication mode selected in the second column does not work, the portal automatically defaults to the corre-

sponding approach in the third column. For example, under ICM **1**, if the mobile phone is busy, default to voice mail. Some of the selections do not have any default because it may not be necessary to default. For example, under ICM **8**, the incoming message goes directly to voice mail with instant notification to mobile devices of the user. The incoming message can usually go to voice mail. There is no need to default.

As a receiver of communication, the user can define a number of contact classes, as shown in FIG. **2**. The user can set up a number of urgency classes, as shown in FIG. **3**. The user can define a number of status, as shown in FIG. **4**. Then, based on tables in FIGS. **1-4**, the user can set up an Access Priority Database for different ContactClasses, as shown in FIG. **5**.

As another example, the user can categorize the following contacts into the corresponding ContactClasses:

Alice (Wife)	ContactClass1
Peter (Close Friend)	ContactClass2
Colina (Close Friend's wife)	ContactClass2

Peter wants to make a mobile phone call to the user. In one embodiment, Peter calls a portal. As an example, the portal can be the user's ISP. The portal first verifies the caller's identity to be Peter. This can be done, for example, by a public key challenge based on Peter having a public key digital certificate. In another example, Peter is also a registered user of the portal. Then, Peter's identity can be more readily identified or verified.

In one embodiment, after verification, a virtual address/number for the communication session is created allowing Peter to reach the user, which can be by phone. The user's phone number does not have to be disclosed to Peter. Similarly, Peter's mobile phone number does not have to be disclosed to the user. The portal can assure the user that the person calling is Peter based on an identification verification process, such as ones described above.

In establishing contact, the portal can access the user's database and determine that Peter belongs to ContactClass**2**. The database can, for example, be in the portal.

In another embodiment, the database is in a personal communication device of the user. The portal accesses the personal communication device to determine Peter's Contact-Class.

Based on the ContactClass information, the status of the user and Peter's urgency setting, the user may receive Peter's call directly. As another example, Peter may be asked to leave a voice mail to the user, while the user is notified by a mobile short message regarding an incoming call from Peter.

As additional examples, in one embodiment, location information of the user could be determined based on GPS information from, for example, the user's cell phone.

In one embodiment, the user receives messages through a handheld device, such as a phone, and the phone has a switch. The switch can be a physical button or a software setting, such as a pull-down menu. The user could set his status dynamically by changing the physical or logical position of the switch. For example, one position can indicate that the user is very busy, and should only be interrupted by an urgent message from the user's closest contacts, such as his wife or parents. Another position can indicate that the user's status allows the user to receive any messages from anyone.

As explained above, based on an embodiment, a message is electronically conveyed by a central network server, such as a

web server based on Internet protocol. A portal or gateway approach could provide general Internet access to one or more embodiments of the communication management systems so that users can configure the system behavior they desire. The portal or gateway can then facilitate download of a database or update thereto to a communication device, such as a phone.

Also, as explained above, based on an embodiment, a user could efficiently maintain his communication, and does not even have to change phones when he moves from areas covering 3G to areas that do not. These phones could be based on different communication mechanisms, such as GSM, CDMA, 3G and 4G systems. Also as explained above, the user could keep information in local databases, such as in such a phone. For example, the intelligent communication modes shown in FIG. **1** for the user to select are in the phone. The user could define the contact classes, such as the ones shown in FIG. **2**; set up the urgency classes, such as the ones shown in FIG. **3**; define the statuses, such as the ones shown in FIG. **4**; set up the Access Priority Database, such as the one shown in FIG. **5**; and categorize a number of the user's contacts into the corresponding ContactClasses, all in the phone. When a caller places a call to the phone, based on information previously set in the phone and based on the urgency class selected by the caller, the phone could automatically manage the communication. Note that the phone does not have to be a cellular phone. In one embodiment, the phone is a desk top phone.

Again as explained above, the person or the caller trying to contact the user could select different options. For example, the urgency of the message can be set by the caller. This selection is typically in the call setup phase. In one embodiment, the caller has pre-selected the urgency class before making the call. In another embodiment, if the caller has not selected the urgency class, the system could prompt the caller to input an urgency class or status before the call or message is routed to the user. In yet another embodiment, different urgency classes could be defined by the caller.

Further, the computer-implemented methods and systems discussed above can be used in conjunction with one or more of the various approaches discussed in U.S. patent application Ser. No. 11/006,343. For example, the automated actions or decisions (e.g., intelligent secretary, decision **204** in FIG. **2**, etc.) of U.S. patent application Ser. No. 11/006,343 can be automatically made by the systems/methods described above. Still further, the various approaches discussed in U.S. patent application Ser. No. 11/006,343 can be used in conjunction with one or more the various methods/systems discussed above. For example, the systems/methods described above can use the messaging approaches (e.g., audio or textual messages) described in U.S. patent application Ser. No. 11/006,343.

Other embodiments of the invention will be apparent to those skilled in the art from a consideration of this specification or practice of the invention disclosed herein. It is intended that the specification and examples be considered as exemplary only, with the true scope and spirit of the invention being indicated by the following claims.

What is claimed is:

1. A non-transitory computer-implemented method to manage the communication of a user via a server based on a communication protocol, in view of a person, using a first device, trying to electronically convey a message from the first device to a second device of the user, the method comprising:

    receiving, by the server, the message from the person using the first device;

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identifying, by the server, the person attempting to electronically convey the message; and

setting, by the server, a process for the message using one or more rules based on at least a status associated with the user and an access priority associated with the person, the access priority depending on the person,

wherein the server is configured to have access to contact information of the person,

wherein even if the process includes transmitting the message to the second device via contact information of the user, the server does not provide the contact information of the user to the first device to inhibit the person from sending messages to the user without via the server, and

wherein the access priority associated with the person is configured to be set by the server depending at least in part on the user reacting by accepting or not accepting a prior message from the person.

2. The non-transitory computer-implemented method as recited in claim 1, wherein the access priority associated with the person is allowed to be set by the user.

3. The non-transitory computer-implemented method as recited in claim 1, wherein the process for the message also depends on an urgency level of the message, which is allowed to be set by the person.

4. The non-transitory computer-implemented method as recited in claim 3,

wherein the status associated with the user and the access priority associated with the person are stored at the second device,

wherein the server can be restricted from accessing the status associated with the user from the second device, and

wherein the server can be restricted from accessing the access priority associated with the person from the second device.

5. The non-transitory computer-implemented method as recited in claim 1,

wherein the method depends on a mode of communication of the message, and

wherein the mode of communication is selected from the list of a mobile phone, an office phone, a home phone, a mobile SMS from a mobile phone or PDA, a pager from a mobile phone or PDA, a home/office SMS, mobile online chat, home online chat, a voice mail with/without instant notification, an office fax, a home fax, a mobile email, and an email.

6. The non-transitory computer-implemented method as recited in claim 1,

wherein the server keeps an electronic calendar of the user, and

wherein an appointment is set by the server for the user with the person in view of information in the calendar.

7. A non-transitory computer-implemented method as recited in claim 1, wherein even if the process includes transmitting the message to the second device via contact information of the user, the server does not provide the contact information of the person to the second device to inhibit the user from sending messages to the person without via the server.

8. A server based on a communication protocol for managing the communication of a user, in view of a person, using a first device, trying to electronically convey a message from the first device to a second device of the user, the second device being a handheld communication device, the server comprising:

at least one computing device; and

at least one storage device,

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wherein the at least one computing device is configured to receive the message from the person using the first device;

identify the person attempting to electronically convey the message; and

set a process for the message using one or more rules based on at least a status associated with the user and an access priority associated with the person, the status depending at least in part on the current activity or location of the user, or the current time, and the access priority depending on the person,

wherein the server is configured to have access to contact information of the person,

wherein even if the process includes transmitting the message to the second device via contact information of the user, the server does not provide the contact information of the user to the first device to inhibit the person from sending messages to the user without via the server,

wherein the server can be restricted from accessing the status of the user from the second device, and

wherein the server can be restricted from accessing the access priority of the person from the second device.

9. A server as recited in claim 8, wherein the process for the message also depends on an urgency level of the message, which is allowed to be set by the person.

10. A server as recited in claim 8,

wherein the process for the message also depends a mode of communication of the message, and

wherein the mode of communication is selected from the list of a mobile phone, an office phone, a home phone, a mobile SMS from a mobile phone or PDA, a pager from a mobile phone or PDA, a home/office SMS, mobile online chat, home online chat, a voice mail with/without instant notification, an office fax, a home fax, a mobile email, and an email.

11. A server as recited in claim 8, wherein the server is configured to keep an electronic calendar of the user, and to set an appointment for the user with the person in view of information in the calendar.

12. A server as recited in claim 8, wherein access priority associated with the person to help set the process depends at least in part on a reaction of the user towards a prior message from the person.

13. A server as recited in claim 8, wherein at least one computing device is configured to ask the user regarding changing access priority associated with the person in view of at least a reaction of the user towards a prior message from the person, and to change access priority associated with the person if so instructed by the response of the user.

14. A server as recited in claim 8, wherein the status associated with the user is allowed to be selected by the user from a plurality of preset statuses.

15. A server as recited in claim 14, wherein the process includes asking the person to leave a voice mail for the user in view of an attribute regarding the message.

16. A server as recited in claim 14, wherein the process includes sending a text message regarding the message to the user.

17. A server as recited in claim 14, wherein the process includes responding to the message by retrieving an electronic mail to send to the person in view of an attribute regarding the message.

18. A server as recited in claim 14,

wherein the message can be voice or text, and

wherein the communication protocol is the Internet protocol.

19. A server as recited in claim **8**,
wherein at least one computing device is further configured to identify the person to the user, and
wherein the process includes
    (i) determining whether the message should be delivered to the user based on at least one attribute of the message;
    (ii) delivering the message to the user if it is determined that the message should be delivered; and
    (iii) declining to deliver the message to the user if it is determined that the message should not be delivered.

20. A server as recited in claim **19**, wherein the message is a text message.

21. A server as recited in claim **19**, wherein at least one computing device is further configured to ask the user regarding access priority associated with the person, and set access priority associated with the person in view of a response from the user.

22. A server as recited in claim **8**, wherein the process includes setting an appointment between the user and the person in view of a schedule of the user.

23. A server as recited in claim **8**, wherein even if the process includes transmitting the message to the second device via contact information of the user, the server does not provide the contact information of the person to the second device to inhibit the user from sending messages to the person without via the server.

24. A non-transitory computer readable medium including at least executable computer program code tangibly stored therein for manage the communication of a user via a server based on a communication protocol, in view of a person, using a first device, trying to electronically convey a message from the first device to a second device of the user, the second device being a handheld communication device, said computer readable medium comprising:
    computer program code for receiving, by the server, the message from the person using the first device;
    computer program code for identifying the person attempting to electronically convey the message; and
    computer program code for setting a process for the message using one or more rules based on at least a status associated with the user, and an access priority associated with the person, the status depending at least in part on the current activity or location of the user, or the current time, and the access priority depending on the person,
    wherein the server is configured to have access to contact information of the person,
    wherein even if the process includes transmitting the message to the second device via contact information of the user, the computer program code does not provide the contact information of the user to the first device to inhibit the person from sending messages to the user without via the server,
    wherein the server can be restricted from accessing the status of the user from the second device, and
    wherein the server can be restricted from accessing the access priority of the person from the second device.

25. A non-transitory computer readable medium as recited in claim **24**, wherein the process for the message also depends on an urgency level of the message, which is allowed to be set by the person.

26. A non-transitory computer readable medium as recited in claim **24**,
    wherein the process for the message also depends a mode of communication of the message, and

    wherein the mode of communication is selected from the list of a mobile phone, an office phone, a home phone, a mobile SMS from a mobile phone or PDA, a pager from a mobile phone or PDA, a home/office SMS, mobile online chat, home online chat, a voice mail with/without instant notification, an office fax, a home fax, a mobile email, and an email.

27. A non-transitory computer readable medium as recited in claim **24**, wherein said computer readable medium further comprises computer program code to keep an electronic calendar of the user, and to set an appointment for the user with the person in view of information in the calendar.

28. A non-transitory computer readable medium as recited in claim **24**, wherein access priority associated with the person to help set the process depends at least in part on a reaction of the user towards a prior message from the person.

29. A non-transitory computer readable medium as recited in claim **24**, wherein the computer readable medium further comprises:
    computer program code for permitting the user to change access priority associated with the person; and
    computer program code for changing access priority associated with the person if so instructed by the user.

30. A non-transitory computer readable medium as recited in claim **24**,
    wherein the computer readable medium further comprises computer program code to identify the person to the user,
    wherein the process includes not delivering the message to the user in view of an attribute regarding the message, and
    wherein the status associated with the user is allowed to be selected by the user from a plurality of preset statuses.

31. A non-transitory computer readable medium as recited in claim **30**, wherein the process includes asking the person to leave a voice mail for the user in view of an attribute regarding the message.

32. A non-transitory computer readable medium as recited in claim **30**, wherein the computer readable medium further comprises computer program code to ask the user regarding access priority associated with the person, and set access priority associated with the person in view of a response from the user.

33. A non-transitory computer readable medium as recited in claim **30**,
    wherein the message can be voice or text, and
    wherein the communication protocol is the Internet protocol.

34. A non-transitory computer readable medium as recited in claim **24**, wherein the process includes sending a text message regarding the message to the user.

35. A non-transitory computer readable medium as recited in claim **24**, wherein the message is a text message.

36. A non-transitory computer readable medium as recited in claim **24**, wherein the process includes responding to the message by retrieving an electronic mail to send to the person in view of an attribute regarding the message.

37. A non-transitory computer readable medium as recited in claim **24**, wherein the process includes setting an appointment between the user and the person in view of a schedule of the user.

38. A non-transitory computer readable medium as recited in claim **24**, wherein even if the process includes transmitting the message to the second device via contact information of the user, the computer program code does not provide the

contact information of the person to the second device to inhibit the user from sending messages to the person without via the server.

39. A non-transitory computer-implemented method to manage the communication of a user via a server based on a communication protocol, in view of a person, using a first device, trying to electronically convey a message from the first device to a second device of the user, the second device being a handheld communication device, the method comprising:

receiving, by the server, the message from the person using the first device;

identifying the person attempting to send the message to the user; and

setting a process regarding delivering the message to the user using one or more rules based on at least a status associated with the user and an access priority associated with the person, the status depending at least in part on the current activity or location of the user, or the current time, and access priority depending on the person,

wherein the server is configured to have access to contact information of the person,

wherein even if the message is delivered to the second device via contact information of the user, the server does not provide the contact information of the user to the first device to inhibit the person from sending messages to the user without using the server,

wherein the server can be restricted from accessing the status of the user from the second device, and

wherein the server can be restricted from accessing access priority of the person from the second device.

40. A non-transitory computer-implemented method as recited in claim **39**, wherein the process for the message also depends on an urgency level of the message, which is allowed to be set by the person.

41. A non-transitory computer-implemented method as recited in claim **39**, wherein access priority associated with the person to help set the process depends at least in part on a reaction of the user towards a prior message from the person.

42. A non-transitory computer-implemented method as recited in claim **39**, wherein the method further comprises asking the user regarding changing access priority associated with the person in view of at least a reaction of the user towards a prior message from the person, and to change access priority associated with the person if so instructed by the response of the user.

43. A non-transitory computer-implemented method as recited in claim **39**,

wherein the status associated with the user is allowed to be selected by the user from a plurality of preset statuses, and

wherein the method further comprises identifying the person to the user.

44. A non-transitory computer-implemented method as recited in claim **43**, wherein the process includes not delivering the message to the user in view of an attribute regarding the message.

45. A non-transitory computer-implemented method as recited in claim **43**, wherein the process includes asking the person to leave a voice mail for the user in view of an attribute regarding the message.

46. A non-transitory computer-implemented method as recited in claim **43**, wherein the process includes sending a text message regarding the message to the user.

47. A non-transitory computer-implemented method as recited in claim **43**, wherein the message is a text message.

48. A non-transitory computer-implemented method as recited in claim **43**, wherein the process includes responding to the message by retrieving an electronic mail to send to the person in view of an attribute regarding the message.

49. A non-transitory computer-implemented method as recited in claim **43**, wherein the method further comprises asking the user regarding the access priority associated with the person, and setting access priority associated with the person in view of a response from the user.

50. A non-transitory computer-implemented method as recited in claim **43**,

wherein the message can be voice or text, and

wherein the communication protocol is the Internet protocol.

51. A non-transitory computer-implemented method as recited in claim **39**, wherein the process includes setting an appointment between the user and the person in view of a schedule of the user.

52. A non-transitory computer-implemented method as recited in claim **39**, wherein even if the message is delivered to the second device via contact information of the user, the server does not provide the contact information of the person to the second device to inhibit the user from sending messages to the person without using the server.

53. A server based on a communication protocol for managing the communication of a user, in view of a person, using a first device, trying to electronically convey a message from the first device to a second device of the user, the second device being a handheld communication device, the server comprising:

at least one computing device; and

at least one storage device,

wherein at least one computing device is configured to

receive the message from the person using the first device;

identify the person attempting to electronically convey the message; and

set a process for the message using one or more rules based on at least a status associated with the user and an access priority associated with the person, the status depending at least in part on the current activity or location of the user, or the current time, and access priority depending on the person,

wherein the server is configured to have access to contact information of the person,

wherein even if the process includes transmitting the message to the second device via contact information of the user, the server does not provide the contact information of the user to the first device to inhibit the person from sending messages to the user without via the server,

wherein the server is configured to be aware of availability of the user, and

wherein the server is configured to send information to the person regarding availability of the user.

54. A server as recited in claim **53**, wherein based on the identity of the person, the server is configured to send information to the person regarding availability of the user.

55. A server as recited in claim **53**, wherein the process for the message also depends on an urgency level of the message, which is allowed to be set by the person.

56. A server as recited in claim **53**,

wherein the process for the message also depends a mode of communication, and

wherein the mode of communication is selected from the list of a mobile phone, an office phone, a home phone, a mobile SMS from a mobile phone, a pager from a mobile phone, a home/office SMS, mobile online chat, home

online chat, a voice mail with/without instant notification, an office fax, a home fax, a mobile email, and an email.

57. A server as recited in claim **53**, wherein the server is configured to keep an electronic calendar of the user, and to set an appointment for the user with the person in view of information in the calendar.

58. A server as recited in claim **53**, wherein the server is configured to set the access priority associated with the person depending at least in part on a reaction of the user to a prior message from the person.

59. A server as recited in claim **53**, wherein the server is configured to allow the user to set access priority associated with the person.

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