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(54) Title: METHOD AND SYSTEM FOR COLLECTING SYNCHRONIZING AND REPORTING TELECOMMUNICATION CALL EVENTS AND WORK FLOW RELATED INFORMATION

(57) Abstract: The present invention is directed to a method and apparatus for recording and generating additional information related to telecommunication events using a mobile communication device, such as a telephone call or a text messaging event using cellular phone or a personal digital assistant. Specifically, the preferred embodiments of the present invention records information such as GPS coordinates that indicate a position of the mobile communication device during the communication event, as well as a location of a sender or receiver of data to or from the mobile communication device, so as to facilitate a log entry of the position of the mobile communication device as well as other useful information that are associated with the communication events.

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incoming calls, assuming that said Caller ID information is not blocked. For example, Lucent Technologies produces a model ISDN 8520T CPE that keeps a log of unanswered incoming, answered incoming, and outgoing telephone calls. Each call has a time stamp associated with it so that unanswered calls  
5 can be distinguished from available calls that have Caller ID information. When the CPE is used with a switch, such as an ISDN PBX switch, the CPE will provide each caller's name if it is stored in the switch's database. As individuals that pay telephone bills know, all of this caller information is also preferably included in a customer's telephone bills for the purpose of billing  
10 information and is well known to people that are skilled in the art.

Customer Relationship Management (CRM) prior art applications provide a solution to understand customer related pipelines, such as sales or support team's pipelines. For sales, it is important to keep track of a company's Contacts, Accounts, and Opportunities. Every Account has a  
15 Contact or group of Contacts that are associated with the Account. Every Opportunity has one or many Accounts that are associated with the Opportunity and indirectly have Contacts that are associated with the Opportunity through a common Account or Accounts. Contacts, Accounts, and Opportunities have activities, such as telephone calls, that are associated  
20 with one or more of the Account, Opportunity, or Contact categories (i.e., a telephone call can be associated with a Contact that also has associations with an Account and an Opportunity). Prior art CRM systems are well known to people skilled in the art.

A problem with existing prior art CPE and switch systems is that they  
25 only provide a mechanism for capturing call logs at the switch that the telecommunication device interfaces with. This is not practical with wireless telecommunication devices, since acquiring access to a switch at a base station is not reasonable due to the large number of base stations necessary to create a cellular wireless network. Also, accessing the call logs directly from different  
30 wireless or landline carriers introduces interface and connection issues, since carriers use different standards that are not compatible with other carriers.

Another problem with accessing the call logs directly from a wireless or landline carrier is that each telecommunication carrier, which may be

grouped in a local area or across an entire continent, would have to provide access to, or expose, call log information for their entire user-base on their networks. This introduces a significant privacy problem, in addition to requiring significant bandwidth to transport all of the users' call logs, since not  
5 all users on said networks will subscribe to this advanced service that integrates and associates call logs with database records.

Yet another problem is that call logging by the wireless or landline carrier only provides call logs specifically for billing purposes, and the advanced Telecommunication Call Events that the telecommunication device can provide are not provided. For example, this invention provides a  
10 Telecommunication Call Event to include the GPS position of the telecommunication device at the time the device received, missed, or initiated a telephone call, or during the entire duration of the telephone call.

An additional problem with existing call logging systems, such as the CPE, is that the centralized logging solution does not always have the capability of being disabled or turned off. Specifically, this is the case for carrier specific switches whose main function is to record calls for billing purposes. By handling the Telecommunication Call Event recording (i.e., call logging) functions on the telecommunication devices, the authorized user can  
15 have the ability to disable the call logging functionality simply and effectively.

It is yet another problem with the prior art system when a user owns or makes calls from multiple telecommunication devices (i.e., a landline telephone, a wireless telephone, etc.), specifically when the telecommunication devices are operated on different carrier networks, since interfacing with each call logging switch amongst all of the carriers that the telecommunication device connects with is a very difficult and daunting task. This problem is further exaggerated if the user owns a wireless telecommunication device with roaming capability and "roams" into a  
25 different wireless carrier network. With prior art systems, access to all possible roaming networks would be required to provide a continuous call logging solution.

Another problem with existing database applications, such as CRM applications, is that the user is required to manually enter the

Telecommunication Call Event associations (i.e., such as telephone number associations) into database records, such as Contact data (i.e., vCARD), Accounts, or the like. Providing a system that autonomously updates the call history information would provide better real-time forecasting and reporting information. As people that are skilled in the art will agree, this significantly improves the effectiveness of such systems.

Until now, an adequate solution to these problems has eluded those skilled in the art. Thus, there exists a need to provide a solution that enables Telecommunication Devices to capture Telecommunication Call Events for enabling the association of Telecommunication Call Events with database records, which may include without limitation Contacts, Accounts, Opportunities, Forecasts, Leads, Tasks, Documents, Cases, other Events, or the like. This invention provides many important benefits for Telecommunication Devices which are an important and integral part of improving Work Flow-related processes.

## SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method and system for enabling the Telecommunication Device to capture all telephony-related events, denoted hereinafter as Telecommunication Call Events (TCE). In the preferred embodiment, the Telecommunication Call Events can include the telephony-related events without limitation as follows:

Telecommunication Call Events (Example):

- Telecommunication Device's Local Telephone Number and/or Unique Identifier (i.e., the telecommunication device's Electronic Serial Number (ESN), or the like).
- Incoming Call's Telephone Number and Related Caller-ID Information
  - Related Caller-ID Information Includes:
    - Blocked or Not Blocked Caller-ID Information (i.e., indicating if the Caller-ID information is hidden or visible).
    - Telephone Number's Registered Name
      - The Registered Name may be either a personal or business name. If it is a personal name, the Registered Name may include only the First Name, Surname, Middle Name, or any combination thereof. If the Registered Name is a Business, then the Business Name (i.e., DBA - "Doing Business As" Name) is typically provided.
    - Telephone Number's Registered Address
    - Telephone Number is registered to either a Landline or Wireless Telephone
- Missed Call's Telephone Number and Related Caller-ID Information
  - Related Caller-ID Information Includes:

- Blocked or Not Blocked Caller-ID Information (i.e., indicating if the Caller-ID information is hidden or visible).
- Telephone Number's Registered Name
  - The Registered Name may be either a personal or business name. If it is a personal name, the Registered Name may include only the First Name, Surname, Middle Name, or any combination thereof. If the Registered Name is a Business, then the Business Name (i.e., DBA – “Doing Business As” Name) is typically provided.
- Telephone Number's Registered Address
- Telephone Number is registered to either a Landline or Wireless Telephone
- Outgoing Call's Telephone Number
- Call Duration for either Incoming or Outgoing Telephone Calls
- Roaming or Non-Roaming Call Indicators for either Incoming or Outgoing Telephone Calls
- Local or International Call Indicators for either Incoming or Outgoing Telephone Calls
- Telephone Call Start Event and the Time associated with said Event
- Telephone Call End Event and the Time associated with said Event
- Completed or Incompleted Telephone Calls
- Forwarded or Redirected Telephone Call Event and the Time associated with Said Event
- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well known to those skilled in the art) representing the location of the Telecommunication Device at the Start of the Call

- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well known to those skilled in the art) representing the location of the Telecommunication Device during the Entire or Partial Duration of the Call
  - 5           ○ In this invention, the Spatial Coordinates can be captured in real-time at varying position sample periods or triggered based on the distance traveled or the like as known to those skilled in the art.
- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well known to those skilled in the art) representing the location of the Telecommunication Device at the End of the Call
- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well known to those skilled in the art) representing the location of the Telecommunication Device's Wireless Base Station(s) or Central Office at the Start of the Call
- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well known to those skilled in the art) representing the location of the Telecommunication Device's Wireless Base Station(s) or Central Office during the Entire or Duration of the Call
  - 20           ○ With a typical wireless Telecommunication Device, it is possible for the telecommunication device connection to be transferred from one wireless base station to another during a telephone call (i.e., for either voice or data calls). In this invention, the Telecommunication Device will store the Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well know to those skilled in the art) representing the location of each wireless base station the telecommunication device connection was transferred to and the associated time of the transfer or "hand-off" time.
  - 25
- Spatial Coordinates on the Earth (i.e., GPS coordinates or the like as well know to those skilled in the art) representing the location of
- 30

the Telecommunication Device's Connected Wireless Base Station(s) or Central Office at the End of the Call

- Distress Call (i.e., if the call is a 911 or E-911 call or the like)
- Information Call (i.e., if the call is a 411 call or the like)
- 5     • Operated Assisted Call (i.e., if the call is a 611 call or the like)
- Voice Mail Call (i.e., such as \*86 on most wireless carriers in the United States)
- Data or Voice Call
- Digital or Analog Call
- 10    • Dormancy State (i.e., if the call is temporarily quiescent, but capable of being activated)
- Phone Power-On Event and the Time associated with said Event
- Phone Power-Off Event and the Time associated with said Event
- Low Battery Event and the Time associated with said Event
- 15    • Signal Power (i.e., SNR, Eb/No, or the like, etc.) of the Telecommunication Device and the Time associated with said Event
- Entire or Portion of the Recorded Voice Message of the Telecommunication Device during a Telephone Call and the Start
- 20    Time, End Time, and Duration of the said Telephone Call

It is an object of the present invention to provide a method and system for enabling the capturing and logging of Telecommunication Call Events on the Telecommunication Device. As Telecommunication Call Events occur,

25     they are registered and stored or recorded to a data storage device, located either locally within the Telecommunication Device or externally on a remote storage device connected to the Telecommunication Device through either a wired connection, such as the Internet/Intranet/Extranet, wireless connection, infrared connection, optical connection, or any combination of the

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aforementioned or similar connections (i.e., wired, wireless, infrared, optical, or the like connection). In one embodiment, these local storage devices also include a flash memory storage device, hard disc drive, optical memory, non-volatile memory, or the like as well known to those skilled in the art. As illustrated, it is also an object of the present invention to enable the capability so that the storage of Telecommunication Call Events, which typically occur in real-time, can be stored on a remote networked storage device. In one embodiment, the Telecommunication Call Events are packaged and pushed directly to an online Internet-connected networked server that is connected to the Telecommunication Device using first a wireless connection through a wireless base station and then through the Internet to an online networked server.

It is an object of the present invention to provide a method and system for enabling the synchronization or transfer of said Telecommunication Call Events, where the synchronization or transfer of said Telecommunication Call Events are initiated based on 1). Real-Time Telecommunication Call Events, 2). Scheduled Ad-Hoc and/or Reoccurring Time Intervals, and/or 3). Locally or Remotely Initiated Triggered Events. The Telecommunication Call Events are synchronized or transferred from the Telecommunication Device to 1). a Centralized Server Computing System (i.e., peer-to-server connection), 2). a Distributed Server Computing System (i.e., peer-to-multiple servers), and/or 3). a Personal Computing System using a variety of different transport mediums, such as a wired, wireless, infrared, optical, or the like connection. For example in one embodiment, the Telecommunication Device can synchronize or transfer its Telecommunication Call Events using a peer-to-peer (P2P) configuration directly to another computing platform, such as a local PDA using a wireless Bluetooth connection. In another embodiment, the Telecommunication Device can synchronize or transfer its Telecommunication Call Events using a peer-to-server (P2S) configuration to an online centralized server for later retrieval of said call events and/or work flow status information. In a similar embodiment, the online server embodies a distributed server system for the purpose of enabling better Reliability, Availability, and Scalability (RAS) of the synchronization, transfer, or

retrieval of said Telecommunication Call Events and/or work flow status information.

It is an object of the present invention to provide a method and system for enabling the synchronization or transfer of said Telecommunication Call Events in Real-Time from the local Telecommunication Device.

With advanced wireless telecommunication devices (such as devices that provide simultaneous data and voice capability, etc.) or telecommunication devices with out-of-band data functionality (such as SMS functionality or the like), the transfer of Telecommunication Call Events can occur in Real-Time to 1). a centralized server computing system, 2). a distributed server computing system, and/or 3). a personal computing system. This particular object allows the storing of the Telecommunication Call Events to the local telecommunication data storage device for the purpose of ensuring the delivery of the Telecommunication Call Events. In most scenarios, temporarily storing the Telecommunication Call Events is the preferred method of operation in order to provide a reliable data transfer, which is typically necessary in a wireless environment. Whenever a Telecommunication Call Event occurs, the event is transferred, synchronized, or "pushed" in real-time to the accompanying receiving device(s). After the real-time transfer of the Telecommunication Call Events has occurred, a copy of the Telecommunication Call Event(s) may be temporarily stored locally for added reliability until an acknowledgement of the receipt of the specific Telecommunication Call Event(s) is received by the Telecommunication Device. Once the Telecommunication Device has received an acknowledgement or confirmation from the receiving device(s), the Telecommunication Device can then safely delete or remove the sent Telecommunication Call Event(s). If the Telecommunication Device did not receive an acknowledgment from the receiving device(s), the Telecommunication Device will first store, then forward or resend the data at a later time. This store-and-forward operation will continue until the Telecommunication Device receives an acknowledgement from the receiving device(s) confirming the delivery of the Telecommunication Call Event(s) for the specific Telecommunication Device. This method provides a mechanism

for ensuring that the transferred Telecommunication Call Events will reach their desired destination in a wireless environment that periodically has no coverage area or is subject to coverage loss due to a number of various reasons, such as multipath, blockage, etc. In one embodiment, when a call is received, that call's telephone call event and Caller ID information (e.g., telephone number of caller, telephone number of called telephone, time the call was started, voice call event, received call event, non-roaming call event, etc.) is transferred, synchronized, or "pushed" in real-time to an online server.

It is an object of the present invention to provide a method and system for enabling the Telecommunication Call Events synchronization or transfer process to be scheduled to occur at various reoccurring times or ad-hoc. Typically, for the Scheduled Event Model, the Telecommunication Call Events are recorded to the Telecommunication Device's data storage device in real-time as they occur, such as in a Flash Memory storage device, hard disc drive, or the like as well known to those skilled in the art. At a predetermined or scheduled time, the accumulated Telecommunication Call Events are synchronized or transferred to 1). a centralized server computing system (i.e., peer-to-server connection), 2). a distributed server computing system (i.e., peer-to-multiple servers), and/or 3). a personal computing system. In one embodiment, at the top of every hour the accumulated Telecommunication Call Events are synchronized or transferred to an online server.

It is an object of the present invention to provide a method and system for enabling the Telecommunication Call Events synchronization or transfer process to be triggered based on the detection of a local and/or remote event. In this present invention, locally triggered events may include Telecommunication Call Events, pressing a key on the Telecommunication Device, power-on event, low battery event, reaching a specified storage size limit or storage threshold for the Telecommunication Device, signing-in or executing an application or sub-process running on the Telecommunication Device, or the like. Externally triggered events may include receiving an E-Mail, SMS message, or TCP/IP or UDP command packet to remotely initiate the synchronization or transfer process. This command packet (for example, a SMS message) may also utilize authentication and authorization protocols and

procedures in order to correctly identify and authenticate that the user or process which remotely initiated the synchronization or transfer process has the proper authority and credentials to initiate such a request.

5 It is an object of the present invention to provide a method and system for notifying and providing a confirmation message to the Telecommunication Device that recently had a remotely-initiated synchronization or transfer process performed. This object of the present invention apprises the owner(s) or user(s) of the Telecommunication Device that a remote synchronization or transfer process had recently been completed by an authorized user that had  
10 the appropriate credentials to make such a request. The confirmation message may be digitally signed to authenticate that the sender of the confirmation message is an authorized remote system or user that initiated the synchronization request. This present invention allows the confirmation message to be sent directly to the Telecommunication Device's unique  
15 address, such as an SMS address (i.e., telephone number of the Telecommunication Device, such as 9495551212@wirelesscarrier.com), in addition to numerous other unique addresses that are associated with the Telecommunication Device. These additional addresses may include the owner's or user's E-Mail address for the Telecommunication Device, or the IT  
20 administrator's E-Mail address that maintains the Telecommunication Device, or any predefined unique address (i.e., E-Mail Address, Pager Number, Telephone Voice Mail Address, or the like) that was set by a user that has proper authority and credentials for the Telecommunication Device.

25 It is an object of the present invention to provide the synchronization or transfer process of Telecommunication Call Events or data related to Telecommunication Call Events using a wired, wireless, infrared, optical, or similar connection. For example, in one embodiment, a Telecommunication Call Events log can be transferred to an online networked server via both a wireless connection, such as when using a cell phone to a base station, and  
30 then through the Internet to an online networked server. In another embodiment, the connection to the Internet can also be enabled first through a serial, USB, Firewire, or the like connection that is connected to a desktop or laptop computer, and then through the Internet connection which is established

from the desktop or laptop computer. In a similar embodiment, the connection can also be established wirelessly to either the desktop or laptop computer, such as using a Bluetooth connection. In a different embodiment, the wireless connection can be established using a Local Area Network (LAN), such as in  
5 an office environment. In a similar embodiment, the wireless connection can be established using a Wide Area Network (WAN), as with a cellular device that is wirelessly connected to a nearby base station which has an established connection to the online networked server by means of an Internet connection.

It is an object of the present invention to provide a method and system  
10 to provide the association of either Contact(s) to Telecommunication Call Events and/or Telecommunication Call Events to Contact(s), in which the Contact(s) are stored and referenced from a database, either locally or through an online centralized or distributed server. The Contact fields are searchable and capable of being correlated with the Telecommunication Call Events. For  
15 example, in one embodiment, a Telecommunication Device received a call from telephone number (732) 792-4265 on June 17, 2001 at 4:30 PM EST. In this embodiment, the Telecommunication Device received said telephone call and synchronized the Telecommunication Call Events information (such as, but not limited to, the telephone number of caller, telephone number called,  
20 time stamp when call was started, call duration, time stamp when call was ended, voice call, received call event, non-roaming call, etc.) to an online networked server. In this embodiment, a user is able to view using a web browser which Contact in their database initiated the call. The server provided this functionality by correlating the received Telecommunication Call Events  
25 which contained the caller's telephone number with the telephone number that was stored in the user's Contact database. This same object provides the capability for viewing said correlated contacts for said Telecommunication Call Events either locally on the Telecommunication Device or remotely, such as from another computing device or other Telecommunication Device.

30 It is an object of the present invention to provide a method and system to enable users within a predefined group to share their individual Contact databases with each other for the purpose of providing a more complete and combined set of Contact Information (i.e., vCard, which automates the

exchange of information typically found on a traditional business card) for the purpose of correlating said Contact Information with Telecommunication Call Events. Each Contact entry (i.e., vCard) has various user-defined permissions associated with it that defines how the Contact entry can be used by the system and users within a group. It is another object of the present invention to allow group administrators, or similarly authorized users, to assign permission control to users within the group. This permission control allows specified users to perform search queries, and view or edit other users' Contact Information within their organization. Every vCard contained within the group has a pre-defined owner of the Contact data where the owner of said Contact data is provided with inherent default access permissions unless otherwise designated by the administrator of the group or user. The permissions model includes, but is not limited to, the following permission attributes for each Contact entry: Full Control, Read-Only, Search Enabled/Disabled, and Modify.

It is an object of the present invention to provide a method and system to search all of the fields contained in the Contact Information (i.e., vCard) for the purpose of correlating and matching with Telecommunication Call Events either locally in the Telecommunication Device or remotely on the server or other computing device.

It is an object of the present invention to provide a method and system to provide the association of Telecommunication Call Events with any public or private database record, specifically with the association of either White Pages or Yellow Pages (i.e., Points of Interest (POI)) information with Telecommunication Call Events and vice-versa. It should be noted that White Pages and Yellow Pages information is very similar to vCard information with minor field variations and a different data compilation process. The White or Yellow Pages data fields are searchable and capable of being correlated with Telecommunication Call Events. In one embodiment, a Telecommunication Device received a call from telephone number (732) 792-4265 on June 17, 2001 at 4:30 PM EST. In this embodiment, the Telecommunication Device received said telephone call and synchronized the Telecommunication Call Events information (such as, but not limited to, the telephone number of caller,

telephone number of called, time stamp when call was started, call duration, time stamp when call was ended, voice call, received call event, non-roaming call, etc.) to an online networked server. Using a web browser, a user is able to view information about the White Pages (i.e., consumers and businesses) or Yellow Pages (i.e., business) listing that initiated the call using the server's capability to correlate the received Caller-ID provided telephone number with the telephone number stored in the White or Yellow Pages database listing. This same object provides the capability for viewing said correlated White or Yellow Pages database listing for said Telecommunication Call Events either locally on the Telecommunication Device or remotely, such as from another computing device or other Telecommunication Device.

It is an object of the present invention to provide a method and system to search all of the fields contained in any database record or field for the purpose of correlating and matching with Telecommunication Call Events either locally in the Telecommunication Device or remotely on the server or other computing device.

It is an object of the present invention to provide a method and system to log and process Telecommunication Call Events, such as a telephone number that the Telecommunication Device is able to establish a connection with while utilizing connections that are based on various types of connections and protocols, such as PSTN, CDMA, GSM, GPRS, iDEN, TCP/IP, UDP, or the like. This includes, but is not limited to: International Access Numbers, International Direct Dialing (IDD) prefix including the Destination Country Code and Phone Number, Standard Phone Numbers, International Phone Numbers, Information Call (411), Operated Assisted Call (611), Distress Call (911), \*69, \*86, 11-digit phone numbers in the US, \*66, or the like.

It is an object of the present invention to provide a method and system for the association of Telecommunication Call Events with Contacts that have other threads or associations with additional records. This object allows for the indirect correlation of Telecommunication Call Events with these indirectly linked records, which include, but are not limited to: Accounts, Opportunities, Forecasts, Leads, Tasks, Documents, Cases, other Events, or the like. In one embodiment, in a Customer Relationship Management (CRM) application, a

Contact is associated or linked to an Account. An Account (i.e., such as a Business Customer) may have a plurality of Contacts that are associated or linked with it (i.e., such as a business account having multiple points of contact or representatives). When viewing either the Contact or Account information, it is possible with this invention to view at a glance the “Activity History” for either the Contact or Account. The Activity History can display Telecommunication Call Events that are correlated with said Contact or Account, thus providing a detailed snap-shot of the recent interactions with the Contact or Account. It should be appreciated by those skilled in the art that the users of the group do not have to manually update their calls with Contacts of various Accounts or directly with the Accounts as with prior art systems, since this invention provides an automated method and system for updating said Activity History automatically.

It is an object of the present invention to provide a method and system that enables notifications that are triggered by Telecommunication Call Events which are associated or linked to either a single or plurality of database records for the purpose of updating said database records by means of said notification. The notifications relate information or content to said Telecommunications Call Events. The notification can be delivered to the local Telecommunication Device and/or a remote computing device. These notifications can be displayed 1). in real-time while a telephone call is in progress, 2). immediately after a telephone call, 3). upon the execution of an application, process, or by opening an application window or clicking on an application link (i.e., such as a URL in a web browser), 4). at a predefined scheduled time period, either once or at reoccurring intervals, 5). at a specific geographic location or within a geographic range or area, 6). upon receiving an e-mail, SMS message, or instant message, 7). upon receiving a page, and/or 8). based on a user’s current presence or status or a change in presence or status, such as Available, Busy, On the Phone, etc., or the like. In this same object of this invention, the invention provides notifications that contain associations, references, or links to database records that are somehow correlated to the recent Telecommunication Call Events, such as by a telephone number, on the Telecommunication Device that is registered with

the user. In one embodiment, a user receives a telephone call on the wireless Telecommunication Device from a Contact at a major Account called "Acme Manufacturing". After the call has concluded, the system provides a notification display on the user's Telecommunication Device with a link to: 1).  
5 the Contact Information (i.e., vCard) for the Contact at "Acme Manufacturing" that called, 2). the "Acme Manufacturing" Account information, and 3). the opportunity information for the "Acme Manufacturing" Account. By means of the providing these three links (i.e., one for the Contact, one for the Account, and one for the Opportunity), the  
10 user of the Telecommunication Device is able to update the information that had changed due to the telephone call conversation that was privy between both calling parties. The user is then able to update either the caller's Contact information (i.e., the preferred Contact fields are illustrated in the preferred embodiments of the invention), such as a new telephone number, mail address,  
15 contact description, or the like. The user is also able to update the Account related information, during or after the telecommunication call, that was associated or had some degree of correlation to the previous Telecommunication Call Events, such as including, but not limited to the following:

- 20 • Account Name
- Phone Number
- Parent Account Information
- Website
- Account Number
- 25 • Ticker Symbol
- Type (i.e., such as private, public, etc.)
- Industry: (i.e., Telecommunications, Media, Manufacturing, etc.)
- Number of Employees
- Annual Revenue
- 30 • SIC Code
- Billing Addresses
- Voice Notes or Memos

- Text Notes or Memos
- Images
- Customizable Forms (i.e., Account Information, Opportunity Information, Contact Information such as vCard Information, Field Specific Forms, or the like, that is related to the Telecommunication Call Event)

The user is also capable of updating the Opportunity Information that was associated or had some degree of correlation to the previous Telecommunication Call Events, such as including, but not limited to the following:

- Opportunity Information:
  - Primary Information
    - Opportunity Owner (i.e., Contact Owner)
    - Opportunity Name
    - Account Name (i.e., the Account that is linked to this Opportunity)
    - Type: (i.e., new, existing, etc.)
    - Lead Source
  - Deal Amount (i.e., the size of the deal)
  - Status (i.e., Open, Pending, Closed and Close Date)
  - Next Steps (i.e., Need estimate Update, etc.)
  - Stage (i.e., Needs Analysis, Proposal/Price Quote, Closed Lost, Negotiation/Review, etc.)
  - Probability (%): (i.e., 80%, 90%, etc.)
  - Description

In a similar embodiment of this invention, the user received the notification while the call was in progress on their laptop computer and was able to update the information during the course of the conversation.

An additional part of this object provides for a user that calls or receives calls from a corresponding Telecommunication Device to receive a notification event based on recent Telecommunication Events that were

correlated with database records. These notification events include pending alerts or To-Do tasks apprising the user of the Telecommunication Device that un-correlated information needs to be updated, based on recent Telecommunication Events that the system is not able to update and correlate autonomously. In one embodiment, a user receiving or making a telephone call to a single or group of users receives a notification event that includes a pending To-Do task after that call has been terminated, determined by Telecommunication Call Events.

The pending To-Do task requires the user to update the notes information for that contact in order to describe the call, through the means of entering information into text entry forms that are specific to the user's business, or by updating the deal flow of the account information for the particular account that is associated with the telephone number (i.e., Telecommunication Call Event). In another embodiment, while the telephone call is in progress a user receives a reminder to update text entry forms about the contact they are having a conversation with, such as updating the sales projections for the current account that is associated with the user. In another embodiment, after a phone call has concluded, the authorized user of the Telecommunication Device will be apprised, by the Telecommunication Device's program that is running on said device, that a user should create voice-recorded notes in reference to the phone call. In a similar embodiment, after a phone call has concluded, the Telecommunication Device's application that is running on said device will notify the user if they wish to copy and save for later access a part of, or the entire, recorded voice phone call and associate it with the contact corresponding to the called or received phone number. The recorded phone call can reside locally on the Telecommunication Device and can also be synchronized or transferred to the online server system for access via a web browser or custom application program running on a computing device which is associated with various database records, such as vCard, Account Information, Opportunity Information, or the like.

It is an object of the present invention to provide a method and system that enables database records that have none or old time-stamped references to Telecommunication Call Events for the purpose of triggering notifications

based on a predefined temporal threshold for the aging of each database record. This notification event can also be based on the frequency of Telecommunication Call Events that relate to a database record. For example, in one embodiment an Account was established with a company that  
5 represents a large Opportunity for the business to sell their product to.

The account has a group of associated Contacts that are the key decision makers of the Account. Since time may be critical to closing this sale for this Account, this invention allows an aging trigger event to be defined and triggered if a user within the organization does not call the telephone numbers  
10 of any Contacts who are associated with the Account within the predefined time limit set by the administrator of the organization. In this embodiment, this can be used for capturing the Telecommunication Call Events for a particular user and can be applied to users in the organization or department, or to a single user that owns or uses a Telecommunication Device upon which the application is executed. In another embodiment, a user of an organization is  
15 required to call an Account at least once a week. If the user does not perform the task of calling the Account's Contact (i.e., from their vCard data) a notification will be sent to the administrator, or to the user that initiated the event, illustrating that the frequency of calls to this Account for the particular user fell below the set threshold of calls to this Account for past predefined  
20 period of time.

It is an object of the present invention to provide a method and system that enables only one unique user account to be associated with one or many unique Telecommunication Devices. This invention allows multiple users to  
25 be associated with a single Telecommunication Device. However the preferred method of this invention is to allow only one user account to be assigned to multiple unique Telecommunication Devices (i.e., since users typically have more than one Telecommunication Device). This object of this invention also enables the prevention of a Telecommunication Device from being registered  
30 by multiple user accounts. This guarantees that Telecommunication Call Events that occur can be correlated with one and only one user account at a time. In one embodiment, when a user executes an application on the Telecommunication Device, the application will send a unique identifier, such

as an ESN number, telephone number, or the like, to an online server that will register the Telecommunication Device with the registered user that authenticated themselves and executed the application.

5 It is an object of the present invention to provide a method and system that displays an outgoing call history log of recent Telecommunications Call Events on a Telecommunication Device or other computing device, such as a desktop or laptop personal computer. This invention provides no limit on the number of outgoing calls that can be displayed. This object of this invention enables the display of outgoing call history, including additional information and/or references or links that are associated with the outgoing call history log  
10 item(s) of recent Telecommunication Call Events for a particular or group of Telecommunication Device(s). These references or links connect Telecommunication Call Events with database records through the use of common keys present in both the Telecommunication Call Events and the database records. This invention allows partial or exact matches of common  
15 keys. Common keys include Telecommunication Call Events, or the like. For every outgoing call history item, typically denoted as a Telephone Number, other information can be displayed through this invention, such as, but not limited to the following Contact informational fields that are correlated with  
20 the Telephone Number: Title, First Name, Middle Name, Last Name, Suffix, Company, Department, Job Title, Street Address, Street Address 2, Street Address 3, City, State, Postal Code, Country, Address' Latitude, Address' Longitude, Address' Altitude, etc. A plurality of unique Contact records can be displayed in this invention.

25 In addition to displaying the most prominent Contact Information, links (i.e., known as shortcuts) are provided for allowing users to update various additional database records that have an association with the Telecommunication Call Event. These additional links or shortcuts include, but are not limited to the following database records: Accounts, Opportunities,  
30 Forecasts, Leads, Tasks, Documents, Cases, other Events, or the like. It is an object of this invention to allow the updating or populating of the outgoing call history log information by 1). real-time updates as Telecommunication Call Events are processed, 2). scheduled ad-hoc and/or reoccurring time

intervals, and/or 3). running an application or process such as a button or link (i.e., URL) that initiates a call history log update from an online server or local computing platform. In this same object of this invention, it is possible to read database records, such as the Opportunities record database, which has a common association using the Telecommunication Call Events as the common key. Using this link or shortcut, the user is able to quickly and effectively review and update database records that are related to recent Telecommunication Device activities without having to first search for said database record information. The retrieval of additional database records can either be cached locally or accessed upon demand. This object of the invention also provides for mapping any database record that has geographical information associated with it through the call history.

It is an object of the present invention to provide a method and system that enables the Telecommunication Device or other computing device, such as a desktop or laptop personal computer, to display an incoming call history log of recent Telecommunications Call Events. This invention provides no limit on the number of incoming calls that can be displayed. This object of this invention enables the display of incoming call history including additional information and/or references or links that are associated with the incoming call history log item(s) of recent Telecommunication Call Events for a particular or group of Telecommunication Device(s). These references or links connect Telecommunication Call Events with database records through the use of common keys present in both the Telecommunication Call Events and the database records. This invention allows partial or exact matches of common keys. Common keys include Telecommunication Call Events, or the like. For every incoming call history item, typically denoted as a Telephone Number, other information that can be displayed through this invention includes, but is not limited the following Contact information fields that are correlated with the Telephone Number: Title, First Name, Middle Name, Last Name, Suffix, Company, Department, Job Title, Street Address, Street Address 2, Street Address 3, City, State, Postal Code, Country, Address' Latitude, Address' Longitude, Address' Altitude, etc. A plurality of unique Contact records can be displayed in this invention.

In addition to displaying the most prominent Contact Information, links (i.e., known as shortcuts) are provided for allowing users to update various additional database records that have an association with the Telecommunication Call Event. These additional links or shortcuts include, but are not limited to the following database records: Accounts, Opportunities, Forecasts, Leads, Tasks, Documents, Cases, other Events, or the like. It is an object of this invention to allow the updating or populating of the incoming call history log information by 1). real-time updates as Telecommunication Call Events are processed, 2). scheduled ad-hoc and/or reoccurring time intervals, and/or 3). running an application or process such as a button or link (i.e., URL) that initiates a call history log update from an online server or local computing platform. In this same object of this invention, it is possible to read database records, such as the Opportunities record database, which has a common association using the Telecommunication Call Events as the common key. Using this link or shortcut, the user is able to quickly and effectively update database records that are related to recent Telecommunication Device activities without having to first search for said database record information. The retrieval of additional database records can either be cached locally or accessed upon demand. This object of the invention also provides for mapping any database record that has geographical information associated with it through the call history.

It is an object of the present invention to provide a method and system that enables the Telecommunication Device or other computing device, such as a desktop or laptop personal computer, to display a missed call history log of recent Telecommunications Call Events. This invention provides no limit on the number of missed calls that can be displayed. This object of this invention enables the display of missed call history including additional information and/or references or links that are associated with the missed call history log item(s) of recent Telecommunication Call Events for a particular or group of Telecommunication Device(s). These references or links connect Telecommunication Call Events with database records through the use of common keys present in both the Telecommunication Call Events and the database records. This invention allows partial or exact matches of common

keys. Common keys include Telecommunication Call Events, or the like. For every missed call history item, typically denoted as a Telephone Number, other information can be displayed through this invention, including, but not limited to the following Contact information fields that are correlated with the Telephone Number: Title, First Name, Middle Name, Last Name, Suffix, Company, Department, Job Title, Street Address, Street Address 2, Street Address 3, City, State, Postal Code, Country, Address' Latitude, Address' Longitude, Address' Altitude, etc. A plurality of unique Contact records can be displayed in this invention. In addition to displaying the most prominent Contact Information, links (i.e., known as shortcuts) are provided for allowing users to update various additional database records that have an association with the Telecommunication Call Event.

These additional links or shortcuts include, but are not limited to the following database records: Accounts, Opportunities, Forecasts, Leads, Tasks, Documents, Cases, other Events, or the like. It is an object of this invention to allow the updating or populating of the missed call history log information by 1). real-time updates as Telecommunication Call Events are processed, 2). scheduled ad-hoc and/or reoccurring time intervals, and/or 3). running an application or process such as a button or link (i.e., URL) that initiates a call history log update from an online server or local computing platform. In this same object of this invention, it is possible to read database records, such as the Opportunities record database, which has a common association using the Telecommunication Call Events as the common key. Using this link or shortcut, the user is able to quickly and effectively update database records that are related to recent Telecommunication Device activities without having to first search for said database record information. The retrieval of additional database records can either be cached locally or accessed upon demand. This object of the invention also provides for mapping any database record that has geographical information associated with it through the call history.

It is an object of the present invention to provide a method and system that enables the Telecommunication Device to update the local address book based on a statistical analysis of the Telecommunication Call Events associated with a user (i.e., since the user can own multiple

Telecommunication Devices) or with the Telecommunication Device. The Telecommunication Device's address book is an array of Contacts that can be stored locally on the Telecommunication Device for the purpose of accessing the vCard contents in real-time without a high-degree of access latency as typically observed when requesting data through a wireless network. This object of this present invention provides the means for calculating which Contacts are associated with a Telecommunication Device's Telecommunication Call Events and the frequency and age of updates for the purpose of ordering the user's Contact (i.e., vCard) information from the most active to the least active for a given user. This ordering is calculated in real-time as Telecommunication Call Events are recorded. Since most Telecommunication Devices have a finite number of Contact (i.e., vCard) allocations that can be stored locally in the Telecommunication Device, a maximum number of address book Contacts has to be established and may vary across different Telecommunication Devices. Since the user of the Telecommunication Device can have a larger base of Contacts than the Telecommunication Device can support, this maximum number will artificially limit how many Contacts can be synchronized or transferred to the Telecommunication Device.

The synchronization or transfer process for updating the Telecommunication Device's address book can be implemented 1). in real-time as Telecommunication Call Events are processed, 2). at scheduled ad-hoc and/or reoccurring time intervals, 3). upon running an application or process such as a button or link (i.e., URL) that initiates an address book update, and/or 4). based on a percentage difference threshold in which the current address book listing differs from the new address book listing, or the like. Thus this object of this invention uses Telecommunication Call Events to calculate and then populate which Contacts are stored in the local address book of the Telecommunication Device. This object of this invention also provides a provision to for certain high-priority Contacts, such as emergency Contacts, to override other lower-priority Contacts, in the event that these Contacts normally would not be stored in the address book due to storage size

limitations, but are required to be store locally on the Telecommunication Device.

5 It is an object of the present invention to provide a method and system that enables the correlation or matching and/or extrapolation (i.e., partial matching) of Telecommunication Call Events with either local and/or remote database records. Since Telecommunication Call Events vary across different Telecommunication Devices, Telephone (i.e., landline) and Wireless Carriers, Telecommunication Standards (i.e., CDMA, GSM, iDEN, etc.), or the like, it is paramount to provide a means to correlate either exact or partial matches between Telecommunication Call Events and database records. This object of 10 this invention provides the means to allow partial match correlations between Telecommunication Call Events and database records, such as Contact, Account, or the like. The following points provide additional dependent objects that increase the accuracy of the matching of exact and/or partial match correlations with said database records:

1. Extrapolate NPA (i.e., area code) Information for Telecommunication Events (i.e., Caller-ID) when said Telecommunication Events do not provide NPA information for local calls. Thus, it is an object of the invention to add NPA information to Telecommunication Events that 20 do not include said NPA information, where the NPA information is derived from the local telephone number of the Telecommunication Device.
2. Allow partial matches for Telecommunication Devices contained within a Private Branch Exchange (PBX) system. For example, ANI (Automatic Number Identification or Caller-ID) provides the Direct Inward Dialing (DID) trunk from the PBX on which the call originated and not the actual PBX extension of the Telecommunication Device. Thus, it is an object of this invention to allow the partial match searches for telephone numbers that have a high degree of correlation to a particular or set of database records (i.e., Contact, Account, etc.). 25 These partial correlations can be presented to the user in a different manner than exact match correlations.

30

3. Provide a mechanism that allows the user to confirm and/or correct partial match correlations and enabling the user to select the correct database record or records to associate with the exact or partial Telecommunication Call Event (e.g., a user can select from a list the  
5 Contact, Account, or the like, that is associated with the telephone number, etc.).

It is an object of the present invention to provide a method and system that enables the user to match or choose which Telecommunication Call Events are to be associated with various database records. This can occur on  
10 the Telecommunication Device after a Telecommunication Call Event has ended (e.g., the end of a phone call), during a Telecommunication Call Event (e.g., during a phone call), or when a user authenticates and is authorized to sign in to a remote application, such as a custom application or web browser, for the purpose of updating PIM (Personal Information Management), or the  
15 like, information. For example, in one embodiment, a user can receive a number of phone calls from users that do not have any Caller-ID information and thus no phone number is provided. When the user signs in to their organization using a standard web browser, a list of uncorrelated Telecommunication Call Events will be listed so that the user can manually  
20 associate the uncorrelated Telecommunication Call Events with current database records, such as vCard contacts, or so that the user can create a new database record, such as a user vCard or business Account, for the purpose of associating the Telecommunication Call Event with a database record for reports, notifications, or like.

25  
It is an object of the present invention to provide a method and system that provides a plurality of reports that utilize the Telecommunication Call Events for either a particular Telecommunication Device and/or user (i.e., which may use a plurality of Telecommunication Devices). These reports  
30 include numerous combinations of the Telecommunications Call Events, in addition to correlating said Telecommunication Call Events with a plurality of database records. Reports can be a critical part of this invention, as those skilled in the art will agree. Making use of a multitude of Telecommunication

Call Events is only possible by recognizing and illuminating the patterns and frequency of Telecommunication Call Events with their respective database records to the end user in a clear and simple format, which would not otherwise be possible if only the raw data is displayed. The invention provides a plurality of reports, without limitation, and including the following:

5

- Incoming Calls Report
- Outgoing Calls Report
- Missed Calls Report
- Contact Reports
  - Contact Call History
  - Last Time Group of Contacts were Called
  - Total Contact Call Time
  - Contact Normalized Call Time vs. User's Total Call Time
  - % of Calls that are Personal vs. Business

10

15

- New Account Report - Customers that are being Serviced
- Active Contacts — Current Contacts that are Active
- Neglected Contacts — Contacts that need Attention
- Active Accounts — Current Accounts that are Active
- Neglected Accounts — Accounts that need Attention
- Aging Reports – Contacts, Accounts, Opportunity, Leads, Forecast
- Return Call Response Time – The amount of time between a Contact calling a user and leaving a voice mail message, to the time the user returned the call to the Contact.

20

- Sales Reports
- Account and Contact Reports
- Opportunity and Forecast Reports
- Support Reports
- Lead Reports
- Fields Service Reports

25

30

- Wireless Airtime Billing Report – Associated wireless airtime charges and the user appropriate account.
- Opportunity ROI Report

Based on recorded call information related to a specified Account's Opportunity that has Contacts associated with said Account. Each Account Opportunity has a monetary value and this report provides the  
5 Telecommunication Call Events information related to said Opportunities, such as including, but not limited to: Time of Calls, Frequency of Calls, Frequency of Return Calls from Contact, Return Call Response Time, or the like.

It is an object of the present invention to provide a method and system  
10 that provides a plurality of maps of varying resolution and size reporting events, patterns, and/or frequencies of Telecommunication Call Events and their respected associated database records illustrating a spatial thematic representation of the data. In one embodiment, it is possible to spatially view the call history for a particular user and their Telecommunication Devices over  
15 a given period of time. In another embodiment, a thematic map of Accounts that the business organization has won or closed is illustrated spatially, which graphically depicts the amount of calls and visits made in the process of winning each Account.

It is an object of the present invention to provide a method and system  
20 that provides a plurality of alerts and exceptions that are triggered based on the changes, modifications, or creation of Telecommunication Call Events and related database records. Alerts and Exceptions are configured by authorized users with the appropriate privileges to create, modify, or remove alert and exceptions for individual users of Telecommunication Devices. For example,  
25 in one embodiment, a user can request to be alerted when a specified Telecommunication Call Event occurs, such as to be notified when a call is made to a specified telephone number and/or NPA/NXX designation, such as with use a PBX phone system, or when a particular Contact is called or the Contact calls the user at one of their Telecommunication Devices (i.e., denoted  
30 as *Telefencing*). In another embodiment, notifications and alerts are used when a user's Telecommunication Device(s) have used a specified amount of airtime or bandwidth for a given period, or if the user's Telecommunication Device transitions from a roaming to non-roaming state or vice-versa.

Additionally, this invention enables an alert when Telecommunication Call Events are made to a particular Telecommunication Device to notify a specific user or group of users that an action is required which is related to the user initiating the Telecommunication Call Events and/or to the user of said Telecommunication Device. In one embodiment, this alert can illustrate that a sales deal has been closed or moved to a different deal-stage. This invention allows alerts to be sent using various different communication methods, such as, and without limitation: E-Mail, SMS Messages, Instant Message, Telephone Call, Page, or the like.

It is an object of the present invention to provide a method and system that provides the capability to access or download related Telecommunication Call Events and/or their associated database records to a computer device in both processed and raw formats. In one embodiment, a user is allowed to download Telecommunication Call Events in a comma delimited format (i.e., .CSV format) for the purpose of integrating said information into a spreadsheet for the tabulation of various fields that are not typically exposed through an online website report. This provides the user with ultimate flexibility in viewing the Telecommunication Call Events, such as the total call duration for a specified range of time. In another embodiment, downloading the Telecommunication Call Events and their associated database records enable the updating of Personal Information Management (PIM) applications, such as updating Contacts, Journals, Calendar Events, Tasks, or the like.

It is an object of the present invention to provide a method and system that provides the capability to for the Telecommunication Device running an application to perform searches which can be transferred or synchronized to an online server system for later retrieval via the online server system, remote computer, or on the Telecommunication Device. It is an additional object of this invention to allow the searches to be performed on a remote computer that interfaces with the online server system and allows searches to be cached on the online server system which are later synchronized or transferred to the Telecommunication Device or remote computer. It is a further object of this present invention to allow the searches to include spatial related searches, such

as Yellow Pages or White Pages searches, or POI searches for creating Routes on the phone, in order to allow the application running on the Telecommunication Device or remote computing device to transfer the searched places to the online server system or remote computer.

5 For example, in one embodiment, a user that is authenticated and authorized by an application running on a wireless telephone is able to access the Internet and search for a Point of Interest (POI) or Place (e.g., such as a restaurant, airport, or the like). Those searched Places are then transferred to an online server system. When the user is authenticated and authorized via a  
10 web browser on a different computing device that has access to said online server system, the user is then able to retrieve and access the Places that were recently searched for on the user's wireless telephone. Additionally, from the web browser, the user is able to save the Place information into their own personal database and add additional objects of information, such as text  
15 notes, documents, articles, or the like, about the Place. It would be appreciated by those skilled in the art that searches performed on the Telecommunication Device are transferred to a remote database for future retrieval from disparate computing devices that have access to an online server system that stores the data records.

20 It is an object of the present invention to provide a method and system that provides the capability for searching Places (i.e., POIs), saving Places, creating Routes/Directions, and saving Routes/Directions using a computing platform, which may include a Telecommunication Device, that is connected to an online server system, and then accessing said saved or searched Places,  
25 or saved or searched Routes/Directions from a Telecommunication Device. It is an additional object of this invention to allow the accessed Places and/or Route/Direction information to be integrated and associated with the Telecommunication Device's specific interfaces, such as GPS, Address Book, Voice Recorder, Camera, Phone Capability, SMS, or the like. The associated  
30 data (e.g., Place and its associated Camera Image(s), Route and its associated Camera Image(s), etc.) derived from the Telecommunication Device's specific interfaces can then be transferred or synchronized to the online server system or remote computer. After the synchronization or transfer process, the recently

searched Place and/or Route/Direction information that is stored on the online server system now has additional database records (i.e., Camera Images, etc.) that were derived from the Telecommunication Device associated with the Place and /or Route/Direction information.

5           It is an additional object of this invention to allow a Telecommunication Device to generate real-time maps based on retrieved Places' address information which was searched or saved on the online server system. It is an additional object of this invention to modify driving directions in real-time, while using a Telecommunication Device, which are based on  
10 driving directions that were searched or saved on the online server system. It is an additional object of this invention to create new driving directions in real-time, while using a Telecommunication Device, which are based on Places that were searched or saved on the online server system. In one embodiment, a user that has a dentist appointment in an hour first signs in to a web page by  
15 entering a username and password. The user searches for the dentist using the web browser that is connected to an online server system that has access to Places (i.e., POIs, Yellow Pages, White Pages, etc.) information. By noting the general location and area of the dentist office and without saving the Place (i.e., the dentist office), the user takes their wireless telephone with them and  
20 drives to the dentist office. During the trip to the dentist office the user gets lost and needs to find his way to the location of the dentist office.

The user signs in to an application that is running on the wireless phone and retrieves his recently searched Places that were searched for on the web. The user is then able to quickly map the dentist office (i.e., the Place)  
25 and even directly call the dentist office (i.e., since the Place information contains the phone number of the dentist), in the event that he might be late for his appointment. The user can do all this from his wireless telephone without having to perform a new search on the phone or call 411 to get the dentist office's phone number. Additionally this invention provides the user with the  
30 ability to dynamically create a route from their current location (i.e., route origin) to the dentist office (i.e., route destination) without having to enter in the destination address, which is very cumbersome on a wireless phone. In another embodiment, a user is able to retrieve a Place that was searched for

and saved to the online server system from their wireless telephone by simple requesting recently saved Places by clicking on a menu option on their wireless telephone. After retrieving and selecting the desired Place the user is able to take a picture using the camera that is integrated into the wireless telephone, and then associate the picture with said Place on the wireless telephone application. Additionally, the application that is running on the user's wireless telephone will then transfer or synchronize the picture to the online server system so that when the user accesses the Place using a web browser on a laptop, the user will be able to see the picture that they took associated with the particular Place. Similarly, in another embodiment, the Place was not searched for on the web, but instead on the wireless phone. In a similar embodiment, a recently saved route was retrieved onto the wireless telephone and a set of pictures that were taken on the wireless phone were associated with the route and transferred or synchronized to the online server system for later viewing.

**BRIEF DESCRIPTION OF THE DRAWINGS**

- FIG. 1 illustrates a network system for providing a communication channel between various wireless and landline computing devices;
- 5 FIG. 2 illustrates one embodiment of the present invention showing a personal computer with an integrated web browser;
- FIG. 3 illustrates one embodiment of the present invention of a wireless Telecommunication Device and an accompanying high-level block diagram of a wireless Telecommunication Device;
- 10 FIG. 4 illustrates one embodiment of linking Contacts in a database with synchronized call history or logged calls from a wireless Telecommunication Device;
- FIG. 5 illustrates one embodiment of the main sign-in page of an online website for accessing and managing Telecommunication Devices, Contact data, Accounts information, Account Opportunities, and other data and reports that typically relate to said data;
- 15 FIG. 6 illustrates one embodiment of the Contacts home page in the website;
- 20 FIG. 7 illustrates one embodiment of a list of all Contacts, or a subset of all Contacts filtered by a given alphabetical letter, or numerically, or the like;
- FIG. 8 illustrates one embodiment for displaying detailed Contact information for a particular Contact and the associated call history for said Contact;
- 25 FIG. 9 illustrates one embodiment for displaying a page to edit all fields of a Contact's information;
- FIG. 10 illustrates one embodiment for creating a new Contact;
- 30 FIG. 11 illustrates one embodiment for selecting a predefined date and time range for the purpose of generating various reports and also illustrates a list of phone statistics for a user and their team;

- FIG. 12 illustrates one embodiment for viewing a list of incoming, outgoing, or missed calls and the ability to print or export the data related to said calls;
- 5 FIG. 13 illustrates one embodiment for finding various map related objects on a map, such as an address, a place (i.e., Point of Interest which is also known as a POI), an area code with or without prefix data, map coordinates, or the like;
- FIG. 14 illustrates one embodiment for displaying a list of partial matches for a searched place (i.e., POI);
- 10 FIG. 15 illustrates one embodiment for displaying a map resulting from a found address, POI, area code/prefix location, or map coordinates and the ability to pan or zoom around on the map or add the mapped point to a planned route's destination or origin;
- 15 FIG. 16 illustrates one embodiment for entering, or selecting, origin and destination addresses in order to plan and compute a route;
- FIG. 17 illustrates one embodiment for displaying a map or a route, travel time, driving distance, and driving directions for a planned route;
- 20 FIG. 18 illustrates one embodiment for displaying a particular user's account information;
- FIG. 19A illustrates one embodiment for displaying the personal information of a particular user;
- FIG. 19B illustrates one embodiment for displaying the group permissions settings for a particular user;
- 25 FIG. 19C illustrates one embodiment for displaying the login history for a particular user;
- FIG. 20 illustrates one embodiment for viewing and/or removing Telecommunication Devices that are associated and assigned to a particular user's account;
- 30 FIG. 21 illustrates one embodiment for associating a single or group of Telecommunication Devices to a particular user's account;

- FIG. 22 illustrates one embodiment for changing the mobile access PIN for a user's Telecommunication Devices;
- FIG. 23 illustrates one embodiment for displaying to a user a summary of the user's team members in an organization and their respective top-level account information and settings;
- 5
- FIG. 24 illustrates one embodiment for changing the password policies for a particular user;
- FIG. 25 illustrates one embodiment for displaying the total disk usage, such as that used for contact information, for an organization and for each individual user in the organization;
- 10
- FIG. 26 illustrates one embodiment for displaying a menu on a Telecommunication Device for searching yellow pages information, retrieving user specific Place information, and recently viewed or saved Place and Trip information;
- 15
- FIG. 27 illustrates one embodiment for displaying a Map of a Place on a web page;
- FIG. 28A illustrates one embodiment for displaying the recently viewed or saved Places on the Telecommunication Device that were retrieved either locally from the Telecommunication Device or remotely from an online server system;
- 20
- FIG. 28B illustrates one embodiment for displaying the detailed information for a Place that was retrieved either locally on the Telecommunication Device or remotely from an online server system;
- 25
- FIG. 29 illustrates one embodiment for displaying the recently viewed or saved Trips on the Telecommunication Device that were retrieved either locally from the Telecommunication Device or remotely from an online server system; and
- FIG. 30 illustrates one embodiment for displaying a representation of a Trip and the associated data that was acquired while using the Telecommunication Device on said Trip;
- 30

## DETAILED DESCRIPTION OF THE EMBODIMENTS

The present invention provides a method and system for capturing, processing, mapping, reporting, and/or displaying Telecommunication Call Events that occur on either landline or wireless Telecommunication Devices (i.e., POTS telephones, cellular telephones, 3G-based wireless data/telephones, etc.), by which the information content of said Telecommunication Call Events can be presented locally on the Telecommunication Device or remotely on a desktop or laptop computer using a computer application or a web browser that can interface to an online networked server. This invention also provides for the synchronization or transfer of said Telecommunication Call Events either locally or remotely to another computing platform. This invention also provides the ability to associate said Telecommunication Call Events with various database records for a multitude of purposes, such as matching Telecommunication Call Events with a Contact database. This invention also enables associating Telecommunication Call Events with Contacts and other threads, such as Accounts, Opportunities, Forecasts, Leads, Tasks, Documents, Cases, other events, or the like. This invention also provides alerts, exceptions, and notifications that are related to the Telecommunication Call Events and associated database records. The present invention may be embodied in an online and Telecommunication Device application, such as the "AtlasBook" application owned and licensed by Networks In Motion, Inc. of Irvine, California.

The preferred embodiments of the present invention will now be described in detail with references to Figures 1-30.

FIG. 1 and FIG. 2 illustrate high-level diagrams of a suitable computing and networking environment in which the various embodiments of the present invention may be implemented. The preferred embodiment of the present invention will be described in the general context of an application that executes on an operating system in conjunction with a personal computer or server, but those skilled in the art will realize that this invention may also be implemented in combination with other program modules. Program modules typically include routines, programs, data structures, etc. that perform

particular tasks or implement particular abstract data types. This invention is not limited to a typical personal computer, but may also be utilized with other computing systems, such as handheld devices, mobile lap top computers, wireless phones, in-vehicle navigation systems, programmable consumer electronics, mainframe computers, distributed computer systems, etc., and the like.

FIG. 1 is a network block diagram illustrating the connection (125 & 101) of both wireless 100 and wired 126 Telecommunication devices to an Application Service Provider (ASP) 123, also referred to as an online server system. This online server system may be configured at a single location and on a single computer, or can be configured as a distributed computer system and at different locations. The wireless Mobile Telecommunication Devices 100 are wirelessly connected 101 to a nearby wireless base station 102, which are typically connected or have access to 105 the Internet, Intranet, or Extranet 106. Additionally, a landline Telecommunication Device 126 is typically connected to a nearby central office 124 which is connected or has access to 123 the Internet, Intranet, or Extranet 106. Additionally, the Application Service Provider (ASP) 123 also has access 109 to the Internet, Intranet, or Extranet 106. The ASP 123 generally consists of a front-end firewall and XML router 113 which itself has access (111 & 114 & 119) to other local computing modules, such as a database 112, POI server 115, geocoding server 116, mapping server 117, and webpage client server 118. The web-server front-end 118 can be connected to the outside Internet, Intranet, or Extranet 106 either through the local front-end firewall 113, or as in this embodiment, via 120 the web server 121, which is connected 122 directly to the Internet, Intranet, or Extranet 106 by using a software firewall which is well known to those skilled in the art. Additionally, either mobile 104 or landline 108 computing devices, such as a personal computer, are connected to the Internet, Intranet, or Extranet 106, either directly 107 or through a wireless connection 103 and base station 102.

FIG. 2 illustrates a typical personal computer 150, that includes a central processing unit (CPU) 173, video adapter 172, hard disk drive 157, optical disk 158, serial port 159, magnetic disk drive 163, system bus 156, and

network interface **176** → **177** & **167** & **169** → **109**. The hard disk drive **157** typically refers to a local non-volatile storage system for storing large amounts of data, such as a web browser program files or cookies or a user's Contact data. The optical disk **158** typically refers to a CD-ROM disk used for storing  
5 read-only data, such as an installation program. The serial port interface **159** is typically used to connect **161** the computer **150** to external devices **160**, such as a keyboard, mouse, and graphical touch screen interface, and also can connect **164** to positioning devices **165**, such as a GPS receiver. The keyboard and mouse **160**, amongst other input devices **165**, enable users to input  
10 information into the computer **150**. The connection **161** & **164** cables can include a serial cable or universal serial bus (USB) cable. Other input devices, that are not shown, may include a joystick, scanner, camera, microphone, or the like. The magnetic disk drive **163** is typically used to store small amounts data, in comparison to a hard **157** or optical **158** disk drive, and typically lacks  
15 the data transfer rates of those other storage drives, but it enables both readable and writable capability.

The hard disk drive **157**, optical disk drive **158**, serial port interface **159**, and magnetic disk drive **163** are all preferably connected to the main system bus **156** of the computer **150** for transferring data. A monitor **170** or  
20 other type of display device, such as a LCD display, is connected **171** to the computer system's **150** video adapter **172**, which is connected to the system bus **156**. Additional peripheral output devices, which are not included in this embodiment, such as a printer, speaker, etc., can also be connected to a personal computer **150**. The system bus **156** also connects to the network  
25 interface **176**, central processing unit (CPU) **173**, and system memory **151**. The system memory **151** contains both random access memory (RAM) **153**, and read only memory (ROM) **152**, that typically consists of the BIOS (Basic Input/Output System) of the computer, necessary for containing basic routines that enable the transfer of information between elements within the personal  
30 computer **150**. The RAM **153** stores a number of program modules, such as the web browser and synchronization applications **155**, and the Operating System **154** of the personal computing device **150** or personal computer **150**.

One example of such a program module **155** would be a web browser that is connected to the "AtlasBook" server that was previously mentioned.

FIG. 3 illustrates a next generation wireless Telecommunication Device **311** in accordance with a preferred embodiment of the present invention, which preferably includes a display **314**, an antenna **313**, and a keypad **312**. The next generation wireless Telecommunication Device **311 & 300**, as illustrated in FIG. 3, provides a foundation **302** for running programs or applications that can access the Telecommunication Device's **311** internal interfaces, such as the Bluetooth **309**, Speech/Audio Codec **308**, GPS Interface **307**, TAPI (Telephony Application Program Interface) **306** Interface, Screen/Keypad API (Application Program Interface) or Interface **305**, Camera API **304**, or the like as well known to those that are skilled in the art. As those that are skilled in the art will appreciate, a Telecommunication Device (**300 & 311**) will also include scheduling/timers **310** for scheduling specific events as is provided with standard computing platforms. Additionally, next generation Telecommunication Devices (**300 & 311**) have graphical user interfaces (GUT) **301** for applications to allow user input using a graphical display **314**. As people skilled in the art will appreciate, these next generation Telecommunication Devices provide the means to access the Telecommunication Devices' internal APIs using a middleware **302** platform, such as J2ME or BREW, which are both well known to those skilled in the art. This simplifies the development process since there is significant support for obtaining developer's access to the Telecommunication Devices internal APIs, such as the TAPI interface for making telephone calls and capturing call logs.

Standard Telecommunication Devices provide an internal call logging capability, such as incoming call history **400**, missed call history **401**, and outgoing call history **402**. Prior art solutions enabled the storage of vCard contact data on the Telecommunication Device, which is usually standard for wireless Telecommunication Devices. As those skilled in the art will appreciate, this invention provides the means to first run an application on the Telecommunication Device for the purpose of collecting Telecommunication Call Events, by using either Telecommunication Device timers **310**, or by having the Telecommunication Device trigger the application when a

particular Telecommunication Call Event occurs, such as when a telephone call is received, transmitted, or the like. As illustrated in FIG. 1, the wireless Telecommunication Device **100** is indirectly connected to the ASP server **123** preferably by means of the Internet, Intranet, or Extranet **106**. This provides a pathway for the synchronization or transfer of Telecommunication Call Events that are captured or recording on the Telecommunication Device to the ASP server **123**. This transfer or synchronization process can occur in real-time or stored and then forwarded at a later time as previously mentioned in this invention.

Once the Telecommunication Call Events have been transferred to the ASP server **123**, the ASP server **123** can then correlate said Telecommunication Call Events with Contact data that is also located on the ASP server **123** system. Using the Telecommunication Call Events history, it is possible to correlate said history with actual contact data that is stored in the ASP server **123** system. For example, in one embodiment, a user may have 1,000 Contacts' data (i.e., vCard data) stored on the online ASP **123** system. As illustrated in FIG. 4 Contact data consists of various user specific fields, including but not limited to the following:

Typical Contact (vCard) Data Fields:

- Title
- First Name
- Middle Name
- Last Name
- Suffix
- Company
- Department
- Job Title
- Business Street
- Business Street 2
- Business Street 3
- Business City
- Business State

- Business Postal Code
- Business Country
- Business Latitude
- Business Longitude
- 5      • Business Datum
- Business Altitude
- Business SIC Code
- Home Street
- Home Street 2
- 10     • Home Street 3
- Home City
- Home State
- Home Postal Code
- Home Country
- 15     • Home Latitude
- Home Longitude
- Home Datum
- Home Altitude
- Other Street
- 20     • Other Street 2
- Other Street 3
- Other City
- Other State
- Other Postal Code
- 25     • Other Country
- Other Latitude
- Other Longitude
- Other Datum
- Other Altitude
- 30     • Assistant's Phone
- Business Fax
- Business Phone

- Business Phone 2
- Callback
- Car Phone
- Company Main Phone
- 5 • Home Fax
- Home Phone
- Home Phone 2
- ISDN
- Mobile Phone
- 10 • Other Fax
- Other Phone
- Pager
- Primary Phone
- Radio Phone
- 15 • TTY/TDD Phone
- Telex
- Account
- Anniversary
- Assistant's Name
- 20 • Billing Information
- Birthday
- Business Address PO Box
- Categories
- Children
- 25 • Directory Server
- E-mail Address
- E-mail Type
- E-mail Display Name
- E-mail 2 Address
- 30 • E-mail 2 Type
- E-mail 2 Display Name
- E-mail 3 Address

- E-mail 3 Type
- E-mail 3 Display Name
- Gender
- Government ID Number
- 5      • Hobby
- Home Address PO Box
- Initials
- Internet Free Busy
- Keywords
- 10     • Language
- Location
- Manager's Name
- Mileage
- Notes
- 15     • Office Location
- Organizational ID Number
- Other Address PO Box
- Priority
- Private
- 20     • Profession
- Referred By
- Sensitivity
- Spouse
- User 1
- 25     • User 2
- User 3
- User 4
- Web Page

30           It should be appreciated by those skilled in the art that Contact data has a plurality of telephone data, such as mobile, car, home, or the like, telephone fields in typical Contact data. As illustrated in FIG. 4 this Contact data may

consist of Name (417 & 412 & 406), Account (418 & 413 & 407), Primary Telephone (419 & 414 & 408), Mobile Telephone (420 & 415 & 409), and Fax (421 & 416 & 410) fields, amongst other various fields 411 that were previous noted. Any given user can have a plurality of Contacts (403 & 404 & 405) that are associated with either a single user or group of users in an organization or across multiple organizations. This Contact Data can also embody Point of Interest (POI) records, such as waypoints, or the like, since a Contact Data record is very similar to a phonebook listing (i.e., White Pages or Yellow Pages). As those skilled in the art know, Contact Data, White Pages, and Yellow Pages records can be categorized together with very similar fields.

As further illustrated in FIG. 4, the preferred embodiment of the present invention provides the linking, either by implicit or explicit threads or links (422 & 423 & 424), between call history (400 & 401 & 402) and Contact Data (403 & 404 & 405). For example, an incoming call history telephone number (949-555-1213) can be linked or threaded 422 to a Contact 403 or group of Contacts, which may include POIs, or the like. Additionally, both missed call history 401 and outgoing call history 402 can also have threads or links (423 & 424) to various Contacts (404 & 405) or groups of Contacts.

In the preferred embodiment, a Telecommunication Device runs or executes a program that collects and transfers Telecommunication Call Events in real-time, on schedule, at predefined intervals, or the like, for the purpose of processing the data, in this embodiment, at the ASP server 123 system. This unique approach enables the ability to provide a mechanism on the ASP server 123 system to display said Telecommunication Call Events in a plurality of methods. FIG. 5 illustrates such a mechanism as the main home page 510 of a website after a user has been authenticated and authorized by the system. The web page 500 of the ASP server 123 system displays a row of headers, such as Home 518, Contacts 519, Leads 520, Accounts 521, Opportunities 522, Call History 523, Search 524, Find on Map 525, Directions 526, and Reports 527. Each main tab, such as Contacts 519, provides a submenu of information related to said tab subject or to the main essence of the application. For example, in this illustration the Contacts Tab 519 provides a submenu directly

related to Contacts that allows a user to create a New Contact **511**, New Lead **512**, New Account **513**, and New Opportunity **514**. Also provided in the Contacts Tab's **519** submenu are functions that indirectly reference Contacts, such as allowing a user to view its Incoming Calls **515**, Outgoing Calls **516**, and Missed Calls **517**.

This page also indicates the name of the user that is signed in to the website **532** and its organization **533**, in addition to the current date **534**. Additionally, each web page **500** provides common functions, such as by the Setup **528**, Help **529**, Trash Bin **530**, and Logout **531** links to other web pages **500**. Other common features include the Search field **501**, My Recent Contacts **502**, My Recent Places **509**, and the Last Activity **503** consisting of the user's recent activity within the web page **500**. The Last Activity **503** provides a cache of all recently accessed Contacts **504**, Maps or Places **508**, Routes **507**, Opportunities **506**, Leads, Accounts **505**, Call History, or the like. My Recent Contacts **502** and My Recent Places **509** illustrate a more specific cache of only the recent contacts and places, respectively, that were searched. It should be appreciated by those that are skilled in the art, that if you search for a place on the ASP server **123** system, and it is displayed on the web page **500** in the My Recent Places **509** list, the same fields are accessible on a user's mobile device. For example, if a user searches for a Dentist office on the website it will be stored as a recent item in the user's My Recent Places **509** list. When that user is on the move, the user can access this location on its wireless telephone by simply searching its My Recent Places list. This part of the invention allows a user to easily and quickly mirror and retrieve the recent searches that the user performed on the web site **500** for fast retrieval on the mobile telephone.

As illustrated in FIG. 6, when you first visit the Contacts **519** web page **500**, the information displayed is a table **611** that lists the contacts whose information was recently viewed on the web page **500**. Some standard fields provided include Contact Name **608**, Company **609**, and Phone Number **610**. This Recently Viewed **600** contact web page provides a quick glance at the most recently viewed contacts. Additionally, a user can request to view a list of their contacts unfiltered (i.e., "All Contacts" **601**), or by other filters, such

as “Recently Edited” **602**, “My Recent Contacts” **603**, “My Recent Places” **604**, “Birthdays this Month” **605**, Contacts “New Last Week” **606**, and Contacts “New this Week” **607**.

As illustrated in FIG. 7, the “All Contacts” view **700** provides a  
5 detailed view of all of a user’s contacts. This view’s **700** data can be sorted by  
a number of fields, such as Name **705**, Company **706**, Group **707**, Title **708**,  
Phone **709**, E-Mail **710**, or Owner **713**. Contact data can be sorted and viewed  
**701** alphabetically (i.e., A-Z), numerically (i.e., “123”), or viewed in its  
entirety (i.e., “All”). Each displayed set of contact data is numbered **702** and  
10 displayed to the user, and a user may view the next **711** and previous **712** sets  
of contact data easily. Additionally, the number of contact data records  
displayed at a time (i.e., per set) is preferably configurable **716**. As people  
skilled in the art will appreciate, a user can edit **703** any contact or delete a  
single or multiple contacts **704**. A user can also select contacts to be  
15 downloaded to the Telecommunication Device by checking the check box for  
the On Ph (on the phone) **715** field and clicking the Update **714** button. This  
enables the wireless phone to download the selected Contacts to the  
Telecommunication Device’s local address book. As people in the art will  
appreciate, the Contact data can be compressed for download, and each  
20 contact can be identified by a pre-defined ID in order to allow for differential  
updates of contacts that have changed since the last download.

Providing a full view of information about a particular Contact **800** is  
preferred in an address book application. FIG. 8 illustrates the main fields for  
providing said vCard fields. These fields include Name, Job Title, company  
25 Department, Birthday, Reports To, and Contact Source, as illustrated in one  
block of information **806**. Another block of information **825** illustrates contact  
information, such as Work Phone, Work Fax, Mobile Phone, Home Phone, E-  
Mail Address, IM Address, and Web Page. Other information blocks include  
Contact Owner, vCard Group and Type **807**, as well as information on the  
30 maintenance of the contact (i.e., Created By and Modified By) and its viewing  
Permissions **824**.

Address information is provided in separate blocks of information,  
such as Home **823** and Work Address fields **808**, which provides the ability to

map the contact in the application. Other contact fields blocks include a block **809** with alternate email addresses (i.e., E-Mail 2, E-Mail 3) and Pager and Car Phone numbers, and a block **822** with the Home Fax number, Anniversary, Spouse, and Children information fields. A final block **810** is provided for the notes field. The summation of all of these individual blocks of information provides complete Contact (i.e., vCard) information for any contact. A user can also edit **801**, copy **802**, print **803**, and delete **804** the contact. Finally, an image **826** associated with the Contact is displayed to the user alongside the other Contact data. This invention also allows a user to obtain driving directions **805** to and from the contact.

In accordance with the preferred embodiment, the Telecommunication Call Events made to the Telecommunication Devices associated with the signed-in user that were initiated or received by the viewed Contact are preferably displayed, as all of the Telecommunication Call Events that were captured for said user are stored on the online ASP **123** system. For example, in one embodiment as shown in FIG. 8, the call history **811** is provided for the user **800** that had calls with **812** various other Contacts, which may be the same said user or another user within the same team as said user. If a Contact name is provided, the Contact Owner field **820** is also displayed, since each contact belongs to someone (i.e., another user which is responsible for the maintenance of a contact). The call history **811** displays each call's "From Phone" **815** and "To Phone" **816** phone number identifiers, as well as the start **817** and end **818** time of the call and the call's duration **819**. This list only provides a subset of the complete call history for this Contact **800**, and the user can choose the length of this displayed subset by selecting the number of records displayed per page **813**. To view the Contact's **800** complete call history, a user can click on a button **814** in the webpage. Additionally, a user can also send an e-mail to this contact by clicking a different button **821** in the web page.

As illustrated in FIG. 9, preferably all of the contact fields can be edited, except the Created By and Modified By fields. Additionally in one embodiment, each contact can have different permissions **903** associated with it, since a contact can be shared by a group of users if it is a public contact. In

one embodiment, each Contact can be placed in a folder or Group **901** and each Contact has an associated Type **902** that can be changed as shown below in the following tables.

<b>Type Fields</b>
Contacts
Places
<b>Group Fields</b>
Unfiled
Business (default)
Personal
Family
Friends
Colleagues
School
VIP
Favorites
Competition
Suppliers
International
Miscellaneous

5

Furthermore, each Contact can have an image (**826 & 904**) associated with it, which is uploaded to the server by clicking on the “Upload Contact Photograph” **905** button. The Path **906** of the image **904** on the local machine is displayed to the user in the web page. When all changes save been made, a user clicks a button to apply changes **900** using a mouse in a web browser, which is known to all people that are skilled in the art.

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As illustrated in FIG. 10, it is possible to create a new Contact **1000** and enter in all of the available information fields for a Contact, except the Created By and Modified By fields.

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Searching for Call History **1100** for a team's members can be implemented using a date and time range. As illustrated in FIG. 11, a user can select either a predefined time range **1101**, such as Today's date **1103** or can select from a group of time range identifiers **1102**. For each search and in this preferred embodiment, a user is required to select the member or group of members **1104** and the type of call **1106**, such as an incoming, outgoing, or missed call. In order to generate the call history view, after selecting the required fields, a user simply clicks on the generate button **1105**.

Additionally, this call history view **1100** preferably displays an overview of a team's members **1110** and their phone statistics, such as Last Phone Synchronization time **1111** and Last Login **1112** either on the phone or the web site, and provides links to view the call history **1120** for incoming **1121**, outgoing **1122**, and missed **1123** calls. This view can also enable the remote synchronization of Telecommunication Call Events by checking a box **1109** and clicking the synchronize button **1107**. The team's call history information can also be printed by clicking on a print button **1108**.

When a Call History **1200** view is generated, it provides information illustrating the type of call history, such as incoming, outgoing, missed, or all calls **1201**. The call history information identifies who the user had conversations with **1207** and can be generated for a plurality of Telecommunication Devices associated with the user's account. General call history information fields include "From Phone" **1208**, "To Phone" **1209**, "Start Time" **1210**, "End Time" **1211**, "Duration" **1212**, and the "Contact Owner" **1213** of the contact if any exists. A link next to each phone number (both From and To) provides a way to Map (**1215 & 1216**) that phone number's location at the time the call was made or received or Map (**1215 & 1216**) the vCard's home or business address that is associated with said phone number. The number of call history records per page (**1214 & 1206**) can vary and previous **1204** or next **1205** page information can also be displayed. The entire or subset of said call history can be printed **1202** or exported **1203** by clicking the appropriate buttons on the web page.

The preferred embodiment of the present invention also includes a find on map **1300** functionality, which, in one embodiment, allows a user to search

and map addresses **1301**, places **1302**, area code and prefix phone number information **1303**, and latitude and longitude map coordinates **1304**. Every time an address is searched for and found it is stored for future use by the Recent Locations **1305** feature on the web page. This allows a drop down  
5 menu for users to select from a number of recent pre-defined locations that were mapped on the web page. When entering an address, typically the fields required are a street address **1306**, city **1307**, state **1308**, zip code **1309**, and country **1310**. After all or a subset of said information has been entered, a map can be generated by clicking on a button or link **1311** in this embodiment.

10 Finding a place or POI **1302** is a similar process, but typically the only field that is required to be entered is the place name **1312** or description, such as the phone number, address, or the like as known to those that are skilled in the art. A map can be generated by clicking on a button or link **1313** in this embodiment. Additionally, a map of an area code and prefix **1303** can be  
15 obtained by entering said information **1314** and clicking on a button or link **1315** in this embodiment. In a similar manner, a user can enter latitude **1316** and longitude **1317** coordinates and click on a button or link **1318** in this embodiment to map the coordinates' location. For the case where a user entered a place name **1302** and requested a map **1313**, if an exact match was  
20 not found a list of partial matches **1400 & 1401** is provided, as illustrated in FIG. 14. This partial list of information will highlight the closest matches **1402** and display a listing of the next immediate partial matches **1403**. A user need only select a suitable match and click on a button or link **1404** to obtain a map in this embodiment.

25 After a map has been obtained, as shown in FIG. 15, it will be displayed on a different web page **1500** illustrating the essence of the map **1506** and a mechanism to zoom **1501** and pan **1506** around the map. The panning **1506** is simply performed by clicking on the new center point of the map as known to people that are skilled in the art, or by selecting some other  
30 button in the direction of the desired pan. A user can add this mapped location to their Contacts **1502** or can print **1503** or E-Mail **1504** this map. Additionally, this location can be added to an origin or destination of a route

for the purpose of creating driving directions **1505** to or from this location. At anytime a user can obtain a new map **1507** for another location.

As illustrated in FIG. 16, one embodiment of this invention allows a user to request driving directions **1600** from an entered starting address (i.e., origin) **1601** to an entered destination address **1604**. A list of recent locations **1603** is available to the user in addition to the standard fields for mapping a location, such as the street address **1605**, city **1606**, state **1607** and zip code **1608**. A user need only enter the required fields and may obtain a map by clicking on a button or link **1609** in this embodiment. After a successful search for the locations of the entered origin and destination addresses or selected locations is completed, a route is computed and driving directions are displayed in a new web page **1700**. The resulting driving directions are summarized by displaying the start **1706** and end **1707** addresses, total trip driving distance, and total trip drive time **1710**. Also provided is another opportunity to add the start **1706** or end **1707** address to the user's Contacts database by pressing a button next to the address (**1708 & 1709**). As another means of summarizing the route, a map of the destination location **1704** and a map of the entire route **1705** are displayed. Detailed driving directions **1711** are displayed in a list with route maneuver order numbers, maneuver instructions (i.e., "Turn Left on Jamboree Rd."), elapsed distance, and a graphical representation of the maneuver (i.e., left turn arrow). The driving directions view can be printed with the displayed maps **1702**, without maps and just as text directions **1703**, or can be emailed **1701**.

FIG. 18 illustrates the setup view **1801** which offers options available to a user setting up its account, and displays the user's name **1802** that the options apply to. The setup view **1801** may offer options for the following settings: Personal Settings **1803**, such as editing the user's personal information or password; Tools **1804**, such as wizards for importing or deleting numerous Contacts; Phone Settings **1805**, such as adding, editing or deleting phones associated with said user's account, or changing the user's mobile access PIN; and Administration Settings **1806** for authorized users, such as for managing the members of the user's team, changing password policies, and viewing login history and member statistics.

FIG. 19a illustrates the various fields associated with a user's Personal Information **1900**, which is part of a user's Personal Settings **1803**. The user's Personal Information **1900** fields are very similar to those of a Contact, since in a team this user can serve as a Contact and said user's Personal Information **1900** can serve as that Contact's information. Personal Information **1900** fields may include several blocks of information. For example, general account settings (**1905 & 1911**) may be described by username, nickname, permission level, user account status (active/disabled), last login date and time, disk space used by this account, user's time zone, user's preference for receiving the company's product newsletter, and the user's typical schedule for consideration in reports. More specific user identification information **1906** can be specified by name, job title, company, department, birthday, the direct supervisor of the user, and the source of this user's involvement with the team, if there is one. The user can then categorize its own Group and Type, being its own Contact Owner **1907**, and the user can identify its contact information as private if necessary **1913**. A user's contact information includes the usual address and phone number fields, such as Work **1908** and Home **1914** Street Address, City, State, Zip, and Country, Work and Home Phone and Fax, and Mobile Phone numbers (**1912 & 1915**). Other forms of contact, such as Email Addresses, IM Address, Web Page, Pager and Car Phone numbers (**1912 & 1909**) can also be included. For more personal notes, the user can enter information about their Anniversary, Spouse, and Children **1915**, or miscellaneous information in the Notes field **1910**.

Whenever a user's Personal Information **1900** is created or modified **1913**, the time of that activity is recorded and also displayed along with the information. Once a user's Personal Information **1900** is recorded, the user can Edit **1901** its own personal information, view or modify its Group Permissions **1902**, view its Login History **1903**, or Change its Password **1904**. From this detailed view of Personal Information **1900**, a user can follow links provided to map the work or home address, to send an email to a clicked-on email address, to visit a clicked-on web page address (i.e., URL), or to view detailed call history for a clicked-on phone number.

FIG. 19b illustrates a sample list of Groups and their Permissions **1925**, where each Group is identified by a pre-defined name **1926** and has a permission setting **1927**. The permission setting **1927** determines if a Group, by which Contacts are grouped, is considered private or public. If a Group is made public, then all Contacts with that Group assignment are also made public and can be viewed in full detail by all team members. If a Group is made private, then all Contacts with that Group assignment are also made private and can be viewed in detail only by the Contact Owner.

FIG. 19c illustrates an example of a user's login history **1950**, where each login event is identified by the time the user signed in **1951**, the IP Address the user logged in from **1952**, and the result of the login attempt **1953**, whether it succeeded or failed.

FIG. 20 illustrates an example of a user's phone assignments **2000**, which is part of a user's Phone Settings **1805**. All of the user's phone assignments, that is, those phones that are associated with said user's account, are listed **2001**, and each phone assignment is described by its phone number and the time the phone was activated on said user's account. A phone number can be treated as a unique identifier, because, as previously described, a phone number can only be associated to one account, although an account may have multiple phone numbers associated with it. A phone assignment may be removed at anytime by clicking a Remove button next to the phone number to be removed.

A phone assignment may also be easily added, as illustrated in FIG. 21. A user may add a phone **2100**, which is part of a user's Phone Settings **1805**, for its own account, or for another team member's account if the user has the appropriate permissions. The user whose account the phone assignment is being added to is identified by displaying that user's username **2601**. In one embodiment, to add a phone assignment the user needs two pieces of information, the phone number **2102** and the phone's PIN **2103**. The phone's PIN **2103** is obtained during the phone application's registration process, which requires communication with the server to allow the server to authorize registration, ensuring the phone number in question is not assigned to any other user accounts, and to allow the server to provide the phone

application with a valid PIN. The phone's owner or user then uses that PIN on the web page to complete the process of associating that phone to the user's account. This ensures that the user requesting the phone addition has physical access to the phone, either directly or indirectly through a communicating  
5 phone user, and is thereby permitted to request the assignment. To complete the addition of a phone assignment, the user enters the required information and presses the Add Phones button **2104**. Once the phone number is cleared for assignment and the PIN is verified, the new phone assignment is complete.

Another part of a user's Phone Settings **1805** is the ability to change the user's Mobile Access PIN **2200**, as illustrated in FIG. 22. The Mobile Access PIN is the password used on the phone's application to access the user's account features, such as Contacts, My Recent Places, etc. The username **2201** for the user whose Mobile Access PIN will be changed is specified **2202**, since users with appropriate permissions can also change  
10 another user's Mobile Access PIN. This may be useful, for example, when an employee leaves a company and the supervisor wants to ensure that the ex-employee can not access his/her old account anymore. To set a new Mobile Access PIN, the user enters the new Mobile Access PIN **2203** and confirms the entry by typing it in again **2204**, and then presses the Apply Changes  
15 button **2205** to complete the change.

For use by teams, a team administrator should preferably be able to quickly view and modify the teams account settings. FIG. 23 illustrates the Administration Settings **2300** that a team administrator can use to manage the team's members. A team administrator can get a quick overview of the team in  
20 a tabular format, such as that illustrated, which summarizes each team member's name **2307**, username **2308**, nickname **2309**, account status (active or disabled) **2310**, and permission level **2311**. Each member's information can be edited, simply by clicking on the Edit link **2305** next to the member's name, or by clicking on the links on the member's name **2307**, username **2308**,  
25 and nickname **2309**. Multiple members' password can be reset by the administrator by checking the Password Reset checkbox **2306** next to each member whose password should be reset and pressing the Update button **2301**.  
30 This overview of the team's member can be sorted, by clicking on any of the

column headers, such as Name **2307**, and can also be sorted by a specific letter or numerically **2302**. The number of team members to display per web page **2312** may be selectable and the page number currently being viewed **2303** is also displayed. An administrator can move from page to page using Previous  
5 Page and Next Page links **2304**. Clicking on a user's account status link **2310** will allow the administrator to change that user's account status from Active to Disabled or Disabled to Active. Clicking on a user's Permission Level link **2311** will allow the user to change that user's permission level, giving them more or less account privileges that their current settings provide. For  
10 example, a user who has Permission Level Account Manager can be made into an Administrator in order to increase that user's access and/or control over more of the team's functions and settings. Likewise, a user may be given a lower Permission Level in order to restrict that user's access and/or control more over the team's and/or user account's functions and settings.

15 FIG. 24 illustrates an additional safety feature that helps administrator ensure their users' account information is accessed only by those users. Another part of Administration Settings **2300**, Password Policies **2400** allow an administrator to require that all team members reset their passwords routinely in order to keep passwords secure and less prone to hacking **2401**.  
20 To do this, an administrator simply specifies an expiration period **2405**, after which the team's current passwords expire. To ward off hacker attempts, the administrator can set the maximum number of failed login attempts **2402** before a login attempt is no longer allowed. This too is a setting that can be changed simply by editing the current value displayed **2406**. Once the  
25 maximum number of failed login attempts **2402** has been reached, the user attempting to login is "locked out" for a pre-defined period of time **2403**. This lockout effective period **2403** can be adjusted from its current value simply by changing the period value **2407**. Any changes made to any of the Password Policies values can be applied by pressing the Apply Changes button **2404**.

30 Another part of Administrator Settings **2300** is being able to view Member Statistics **2500**, as illustrated in FIG. 25. The administrator can get an at-a-glance overview of the team's usage of the application and the website and the amount of storage space currently used. This overview summarizes the

whole team's statistics, such as by displaying the total number of contacts created by the team **2501** or the total amount of disk space used by the team **2502**. The overview also summarizes each member's statistics in a tabular format, where the members can be viewed alphabetically, by a particular letter, or numerically **2503**. Each team member in the overview is identified by its name **2505** and username **2506**, and the member's displayed statistics include the number of contacts created **2507**, the number of contacts synchronized to the phone **2508**, and the amount of disk space used by that team member's account **2509**. Clicking on any of the column headers sorts the overview list according to the clicked column data type. Clicking on the links where the data values are, such as on the team member's name or username, will link to more information on that user in reference to the data type clicked. Multiple web pages of members may be necessary, depending on the number of members the administrator chooses to display per page **2511**, and the administrator can scroll to the next and previous pages using a link **2510**, while the currently viewed page is numbered and displayed **2504**.

As people skilled in the art will appreciate, searching for Places and Trips (i.e., Directions or Routes) on a mobile wireless telephone is a daunting task, primarily due to the limited form factor of the wireless telephone (i.e., Telecommunication Device). As illustrated in FIG. 26 a wireless telephone **2600** is comprised of a display **2601** and a keypad **2614**. As people skilled in the art understand, a user can maneuver around a wireless telephone's GUI **2601** using a rocker **2603** and a select button **2602** which simulates the functionality of a personal computer mouse. For this embodiment, as illustrated in FIG. 26, a GUI **2607** is shown displaying a menu of options that illustrates a graphical interface for searching for places (**2609 & 2611**) and trips (**2610 & 2612**) and for displaying maps **2613** on a wireless telephone. This GUI **2607** is illustrated by magnifying the projection (**2604 & 2605**) of the wireless phone's GUI **2607** in order to aid in the illustration of this invention.

In one embodiment, using a web browser it is possible to display a web page **2715** that illustrates the core functionality of finding a Place. A Place **2700** is typically defined as having a geographical location, such as an address

which can further derive a Place's latitude and longitude coordinates. A Place 2700 that is derived from a realizable address can be shown on a Map 2705 of varying resolution and size. A Map typically allows a user to zoom in or out 2703 or to pan around the Map 2705. As illustrated in this invention, a Place 5 2700 does not have to be saved, as required by prior art systems. As people skilled in the art will appreciate, geographical locations (i.e., Places) that were found using the ASP system 123 are cached by the system and displayed to the user in the Last Activity 2706 portion of the web page 2715. This illustrates not only saved and cached (i.e., not purposely saved by the user) Places (2707 10 & 2708 & 2709), but also saved and cached Trips (2710 & 2711 & 2712). Saved Places and Trips are accessible using the "My Recent Places" 2714 and "My Recent Trips" 2713 links from this web page 2715. The "Last Activity" 2706 preferably embodies all activity (i.e., in reverse chronological order) initiated by the user on the web page 2715 and on one or more of their 15 Telecommunication Devices or remote computing devices, and which was registered since the user was authenticated and recorded by the ASP system 123. For example, a user may have searched from the Place "My Fishing Hole #2" 2708 on their wireless telephone and then searched for the address "18872 Bardeen Avenue, Irvine, CA 92612" via the web page 2715. This search is 20 illustrated in the "Last Activity" 2706 section of this web page. It should be appreciated by those skilled in the art that this "Last Activity" 2706 illustrates searches from multiple computing devices that had, at one time, a direct connection with the ASP system 123. It should also be appreciated by those skilled in the art that any geographical search (e.g., POI, Address, 25 Latitude/Longitude Coordinates, etc.), can be saved as a Place 2701 or waypoint. Additionally, any geographical search can be used as a route destination point 2702 (i.e., Start, End, Via, or Stop point). FIG. 27 illustrates only a Start and End 2702 point, however this invention supports Via and Stop points as known to those that are skilled in the art. Additionally, a user can 30 initiate a geographical search 2704 from this web page 2715 to find another Place 2700.

Additionally, FIG. 28a illustrates a GUI display (2800 & 2601) of the "Recent Places" 2801 view on the wireless telephone 2600. It should be

appreciated by those skilled in the art that this “Recent Places” **2801** view illustrates Places that were both saved and viewed or searched on the wireless telephone **2600** and on the web page **2715**. As people skilled in the art will appreciate, this allows a user to plan on the web page **2715** and view the results on their wireless telephone without having to initiate the search on the wireless telephone’s **2600** application. For example, in this embodiment the user had searched for a map of the address “18872 Bardeen Avenue, Irvine, CA 92612” using the wireless telephone **2600**, but also searched previously on the web page **2715** for their stored Places (**2803 & 2804 & 2806**) and searched addresses **2805** and POI’s (**2806 & 2807**) that were done while signed in to the web page **2715** that was accessing the ASP system **123**.

Illustrated in FIG. 28b, after searching for a Place **2851** on the wireless telephone **2600** a user is able to display the Recent Place’s **2850** detailed information. This information can consist of a business **2852** address **2853**, telephone **2854**, fax number **2855**, e-mail address **2856** and a link to view a Map **2857** of this Place’s location or create a route **2858** to the Place’s address **2853**. It should be appreciated by those skilled in the art that a route can be dynamically generated using the wireless telephone’s **2600** GPS interface **307** to create a real-time route from the mobile position of the wireless telephone **2600**.

Similar to the “Recent Places” **2801** view, as illustrated in FIG. 29, is the “Recent Trips” **2901** view on the wireless telephone’s **2600** GUI display (**2900 & 2601**). It should be appreciated by those skilled in the art that this “Recent Trips” **2901** view illustrates Trips that were both saved and viewed on the wireless telephone **2600** and on the web page **2715**. As people skilled in the art will appreciate, this allows a user to plan on the web page **2715** and view the results on their wireless telephone without having to create a Trip on the wireless telephone’s **2600** application. For example, in this embodiment the user had created a Trip starting from the address “18872 Bardeen Avenue, Irvine, CA 92612” to the destination address “32314 Golden Lantern, Laguna Niguel, CA 92677” on the web page **2715** as illustrated in FIG. 16 & FIG. 17. The wireless telephone **2600** displays and can retrieve both the created and cached Trips **2904**, as well as the created and saved Trips (i.e., Trips that were

named) (2902 & 2903 & 2905 & 2906) from either the ASP system 123 or the Trips that were created and/or stored on the wireless telephone 2600.

FIG. 30 depicts a Trip 3012 and Driving Directions 3000 which were calculated and displayed using a web page 3028 as known to those that are skilled in the art. As those that are skilled in the art will appreciate, FIG. 30 illustrates the method and system for creating a Trip 3012 with a plurality of destination points (3008 & 3010 & 3013) including a start point (3006 & 3001) and an end point (3016 & 3002). A Trip 3012 can be associated with a plurality of database records (3007 & 3009 & 3011 & 3014 & 3015) that were created and synchronized or transferred from the Telecommunication Device and were collected using the Telecommunication Device's specific interfaces, such as a camera interface 304 as illustrated in FIG. 3. For example, in one embodiment, a user plans a Trip 3012 on the web page 3028. The Trip has a travel time and driving distance 3005 as known to those skilled in the art. Additionally, the Trip has start 3001 and end 3002 points, which in this invention can be added to a user's saved Places using the "Add to Place" buttons for both the start 3003 and end 3004 points. After the user creates a route, they can journey along the route and take pictures or images using their wireless telephone's integrated camera 304. This allows a user to associate their Trip 3012 with the wireless telephone's camera. Each image (3007 & 3009 & 3011 & 3014 & 3015) that is recorded along the Trip 3012 has a time stamp and GPS coordinates that are associated with the image. Images with GPS coordinates are not required, but are the preferred embodiment for this invention.

After the images have been taken, they can be synchronized or transferred in real-time or in a batch process to the ASP system 123. Once the user signs back into the web page 3028, they are able to review their entire trip and the photographs that they recorded during their Trip 3012 in the order that they took the pictures. As people that are skilled in the art will appreciate, the web page 3028 displays a timeline 3017 illustrating the chronological procession of the trip and the start 3018, destination (3020 & 3022 & 3024), and end point 3027 of the Trip 3012, in addition to the images that were taken along the Trip (3019 & 3021 & 3023 & 3025 & 3026) that map directly to the

locations where the images were taken on the mapped route (**3007 & 3009 & 3011 & 3014 & 3015**). It should be appreciated by those skilled in the art that the Trip does not need to be created in advance, since a Trip is defined as having a Start and an End location, all of which can be calculated using a GPS device, which can determine when a device, such as a wireless telephone, has stopped moving for a defined period of time or the like. This type of GPS application that determines when a Telecommunication Device has stopped moving is currently available in the art. One embodiment of this type of application that determines when a wireless telephone has stopped moving is known as the "AtlasTrack" application owned and licensed by Networks In Motion, Inc. of Irvine, California. When a user signs into the web page **3028**, the user is able to review their images in a Trip or Route format which was automatically created by the ASP system **123**, and displayed to the user for their review. This allows a user to view their photographs both chronologically and spatially.

It should be noted that the present invention may be embodied in forms other than the preferred embodiments described above without departing from the spirit or essential characteristics thereof. The specification contained herein provides sufficient disclosure for one skilled in the art to implement the various embodiments of the present invention, including the preferred embodiment, which should be considered in all aspect as illustrative and not restrictive; all changes or alternatives that fall within the meaning and range or equivalency of the claim are intended to be embraced within.

## WHAT WE CLAIM:

1. A mobile communication device recording information related to a communication event, said mobile communication device comprising:
  - a receiver for receiving incoming communication data, said incoming  
5 communication data including one of voice data, text data, and image data;
  - a transmitter for transmitting outgoing communication data, said outgoing communication data including one of voice data, text data, and image data;
  - a GPS receiver for receiving GPS data of the mobile communication device, the GPS data indicating a position of the mobile communication device;
  - 10 a timer device for receiving or generating time-stamp data, said time-stamp data including at least one of date data and time data; and
  - a memory for storing the received GPS data of the mobile communication device and for storing communication-event information, wherein the communication-event information includes time-stamp data indicating a date and/or  
15 time of receiving incoming communication data or transmitting outgoing communication data.
2. The mobile communication device of claim 1, wherein said GPS data includes timing data indicating a date and/or a time during which the GPS data was  
20 transmitted to the mobile communication device.
3. The mobile communication device of claim 1, wherein the communication-event information includes GPS data received during the date and/or time of receiving incoming communication data or transmitting outgoing  
25 communication data.
4. The mobile communication device of claim 1, wherein the incoming communication data further includes identification data indicating an identification of a sender of the incoming communication data.
- 30 5. The mobile communication device of claim 4, wherein said identification data is at least one of a telephone number, an address, an e-mail address, a name of an organization, and a name of a person.

6. The mobile communication device of claim 1, wherein the incoming communication data received further includes sender GPS data indicating a location of a sender of the incoming communication data.
- 5 7. The mobile communication device of claim 6, further comprising a map generator for generating a graphical map illustrating a location of the sender.
8. The mobile communication device of claim 7, wherein the graphical map also illustrates a location of the mobile communication device.
- 10 9. The mobile communication device of claim 6, further comprising a route generator for receiving or generating direction information for traveling from a position of the mobile communication device to the location of the sender of the incoming communication data.
- 15 10. The mobile communication device of claim 1, further comprising a data synchronizer for communicating with an external memory device to synchronizing the data stored in the memory with the external memory device.
- 20 11. The mobile communication device of claim 10, wherein said external memory device is operatively coupled to the mobile communication device through a wireless communication network.
12. The mobile communication device of claim 11, wherein said wireless communication networks is a Bluetooth communication network.
- 25 13. The mobile communication device of claim 10, wherein said data synchronizer automatically synchronizes the memory with the external memory on a periodic time interval.
- 30 14. The mobile communication device of claim 1, further comprising a LCD display.

15. The mobile communication device of claim 1, further comprising a digital image capturing device.

16. A mobile communication device recording information related to a communication event, said mobile communication device comprising:

5 means for receiving incoming communication data, said incoming communication data including one of voice data, text data, and image data;

means for transmitting outgoing communication data, said outgoing communication data including one of voice data, text data, and image data;

10 means for receiving GPS data of the mobile communication device, the GPS data indicating a position of the mobile communication device;

means for receiving or generating time-stamp data, said time-stamp data including at least one of date data and time data; and

means for storing the received GPS data of the mobile communication device and for storing communication-event information, wherein the communication-event information includes time-stamp data indicating a date and/or time of receiving incoming communication data or transmitting outgoing communication data.

15

17. The mobile communication device of claim 16, wherein said GPS data includes timing data indicating a date and/or a time during which the GPS data was transmitted to the mobile communication device.

20

18. The mobile communication device of claim 16, wherein the communication-event information includes GPS data received during the date and/or time of receiving incoming communication data or transmitting outgoing communication data.

25

19. The mobile communication device of claim 16, wherein the incoming communication data further includes identification data indicating an identification of a sender of the incoming communication data.

30

20. The mobile communication device of claim 19, wherein said identification data is at least one of a telephone number, an address, an e-mail address, a name of an organization, and a name of a person.

5 21. The mobile communication device of claim 16, wherein the incoming communication data received further includes sender GPS data indicating a location of a sender of the incoming communication data.

10 22. The mobile communication device of claim 21, further comprising a map generator for generating a graphical map illustrating a location of the sender.

23. The mobile communication device of claim 22, wherein the graphical map also illustrates a location of the mobile communication device.

15 24. The mobile communication device of claim 22, further comprising a route generator for receiving or generating direction information for traveling from a position of the mobile communication device to the location of the sender of the incoming communication data.

20 25. The mobile communication device of claim 16, further comprising a data synchronizer for communicating with an external memory device to synchronizing the data stored in the memory with the external memory device.

25 26. The mobile communication device of claim 25, wherein said external memory device is operatively coupled to the mobile communication device through a wireless communication network.

27. The mobile communication device of claim 26, wherein said wireless communication networks is a Bluetooth communication network.

30

28. The mobile communication device of claim 25, wherein said data synchronizer automatically synchronizes the memory with the external memory on a periodic time interval.

29. The mobile communication device of claim 16, further comprising a LCD display.

5 30. The mobile communication device of claim 16, further comprising a digital image capturing device.

31. The mobile communication device of claim 16, further comprising:  
input means for receiving privacy preference data of the user of the mobile  
10 communication device;  
means for determining a privacy preference of the user; and  
means for appending, to the outgoing communication data, the received GPS  
data of the mobile communication device, if it is determined that the privacy  
preference of the user permits the sharing of the received GPS data of the mobile  
15 communication device.

32. The mobile communication device of claim 1, wherein the outgoing communication data further includes the received GPS data of the mobile communication device.

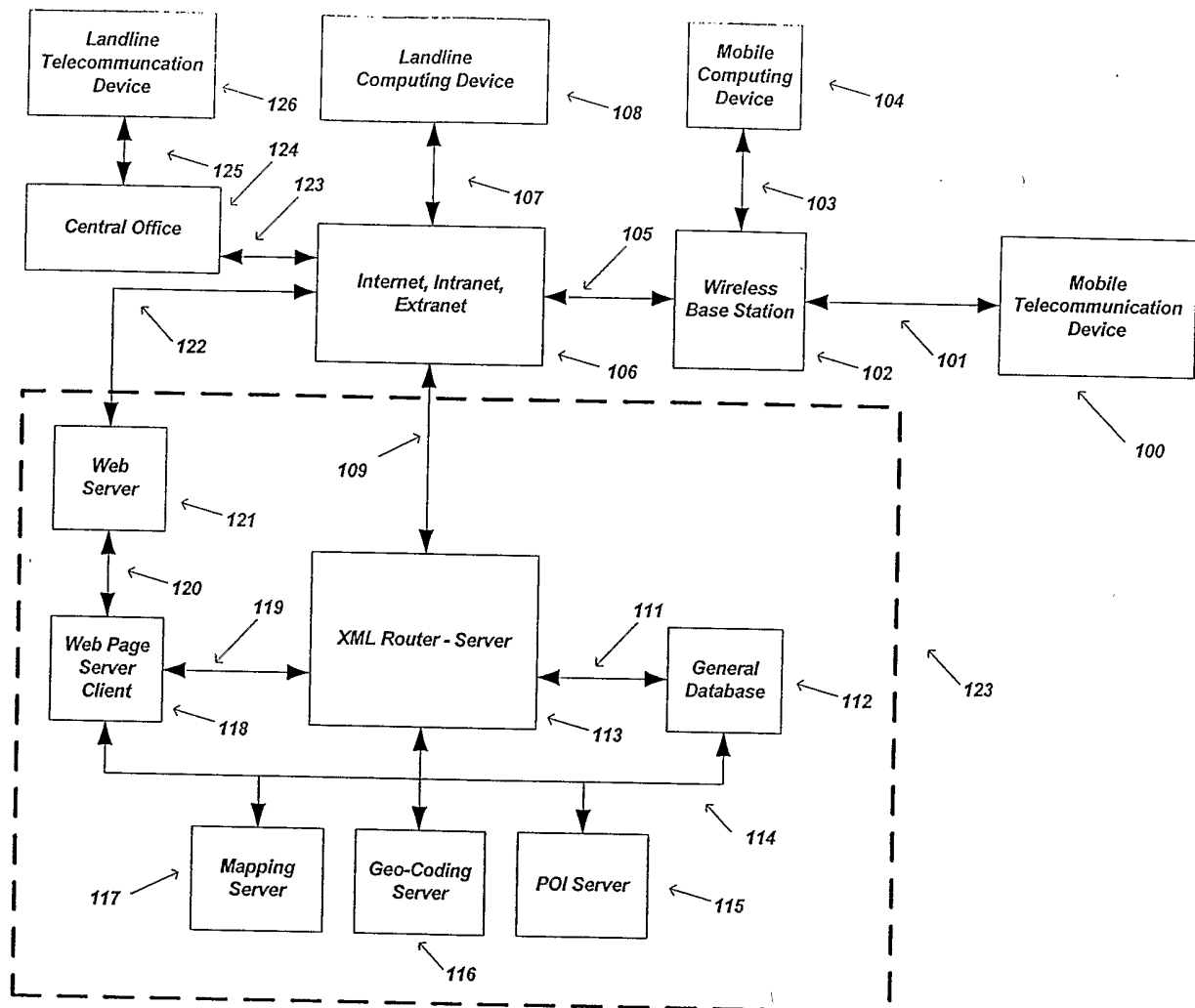


FIG. 1

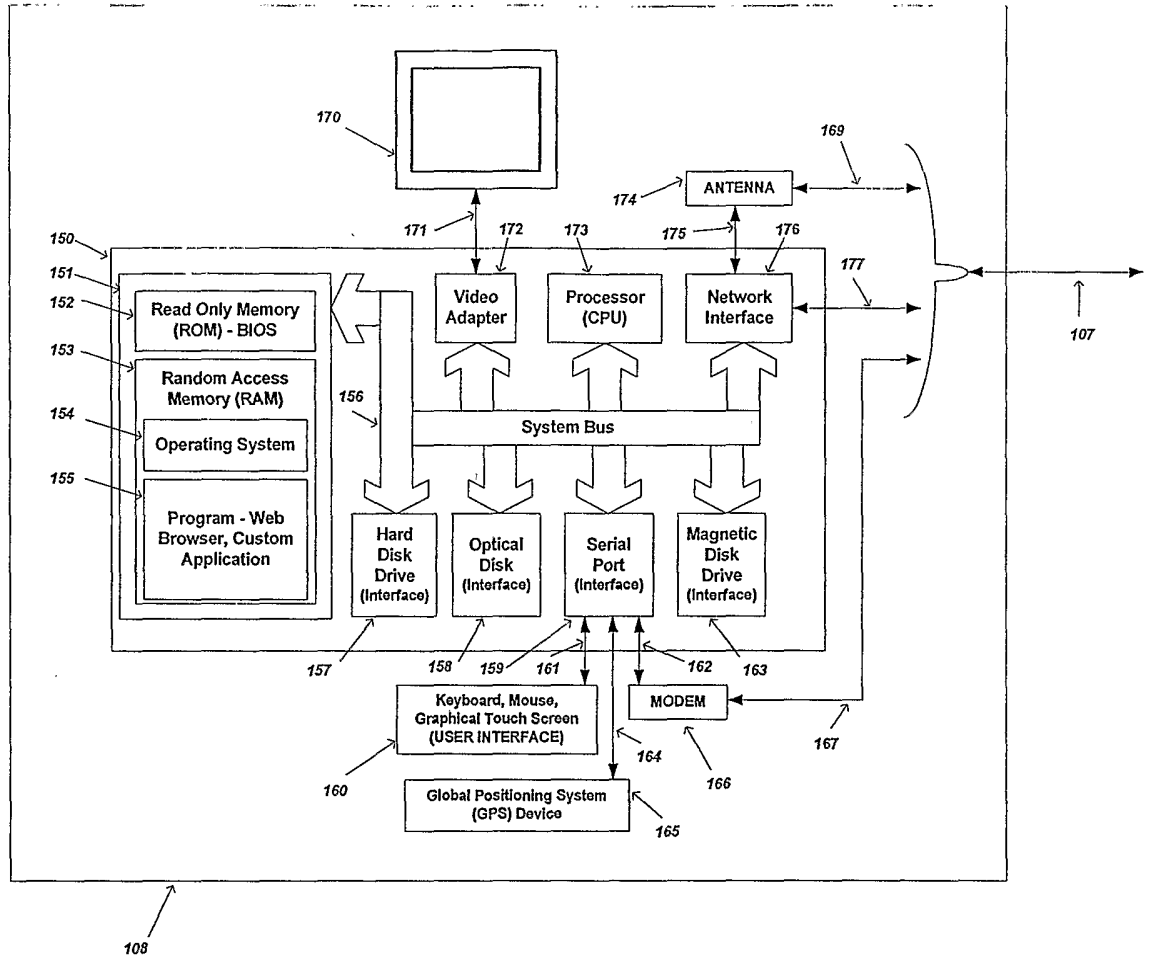
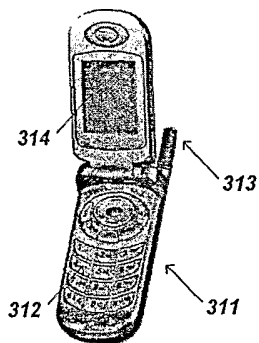
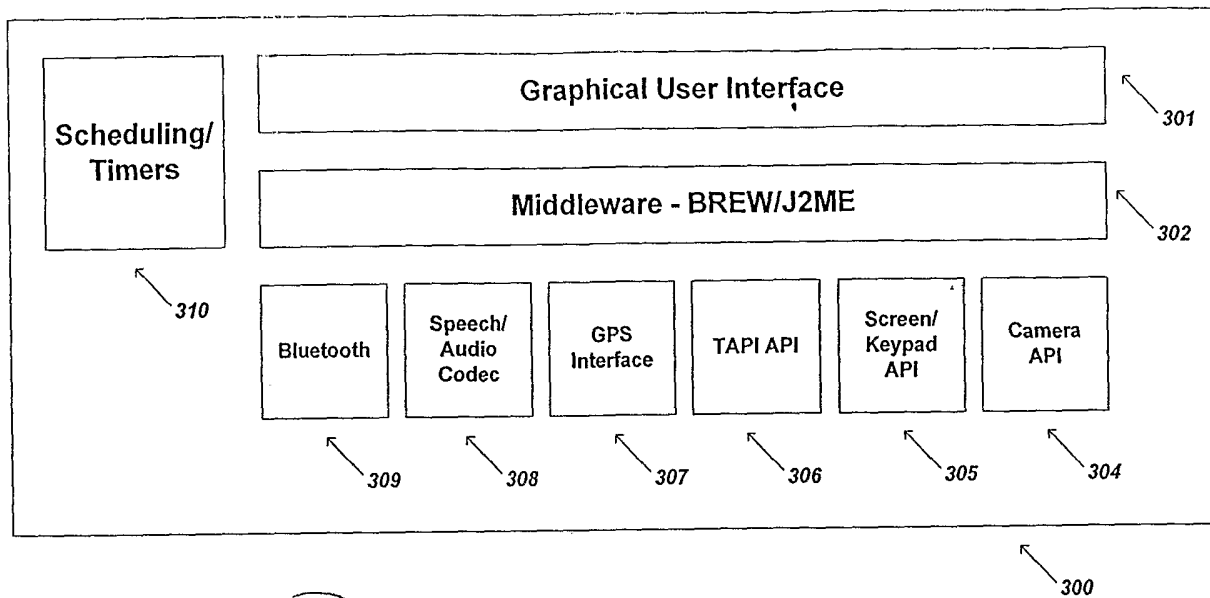


FIG. 2



**FIG. 3**

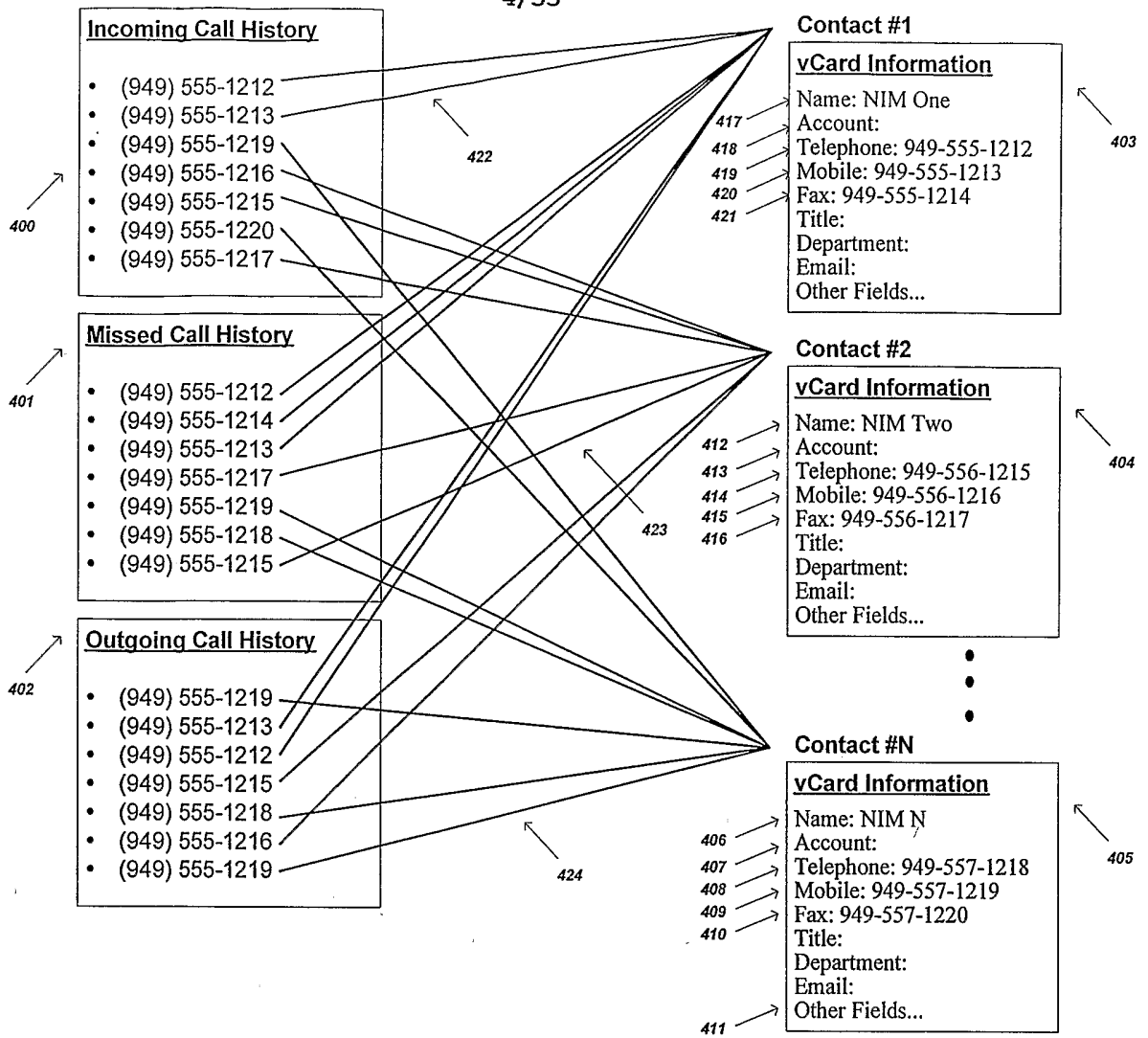


FIG. 4

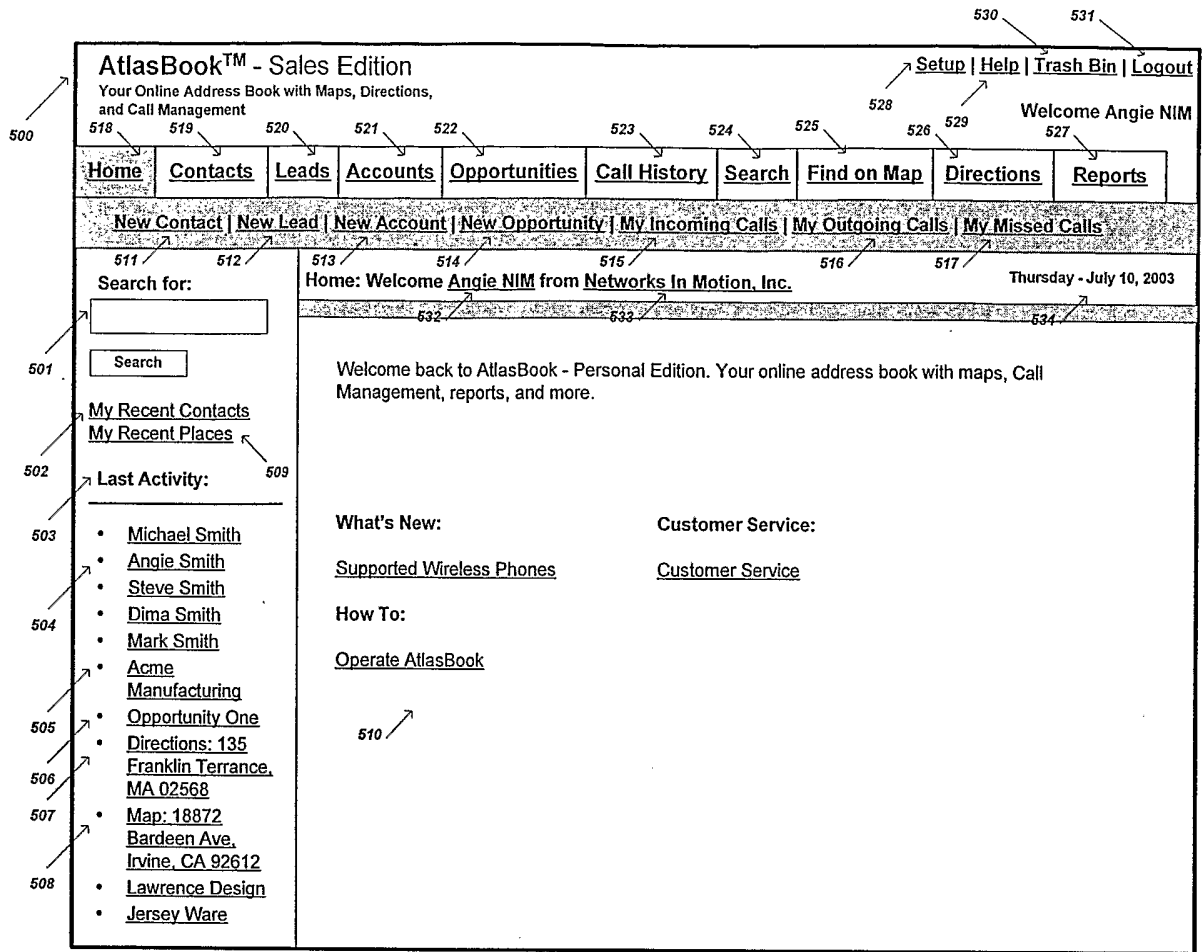


FIG. 5

**AtlasBook™ - Sales Edition**  
Your Online Address Book with Maps, Directions,  
and Call Management

[Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)

Welcome Angie NIM

Home | 
 Contacts | 
 Leads | 
 Accounts | 
 Opportunities | 
 Call History | 
 Search | 
 Find on Map | 
 Directions | 
 Reports

[New Contact](#) | [New Lead](#) | [New Account](#) | [New Opportunity](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**My Contacts: Recently Viewed**

View By: [All Contacts](#) | [Recently Edited](#) | [My Recent Contacts](#) | [My Recent Places](#)  
[Birthdays this Month](#) | [New Last Week](#) | [New this Week](#)

Thursday - July 10, 2003

Contact Name	Company	Phone
<a href="#">Michael Smith</a>	<a href="#">Acme Manufacturing</a>	<a href="#">(949) 555-1212</a>
<a href="#">Angie Smith</a>	<a href="#">Lawrence Design</a>	<a href="#">(949) 555-1213</a>
<a href="#">Steve Smith</a>	<a href="#">Jersey Ware</a>	<a href="#">(949) 555-5477</a>
<a href="#">Dima Smith</a>	<a href="#">Platinum Materials</a>	<a href="#">(949) 555-1215</a>
<a href="#">Mark Smith</a>	<a href="#">New Inc.</a>	<a href="#">(949) 555-1216</a>
<a href="#">Anthony Smith</a>	<a href="#">Smith House</a>	<a href="#">(949) 555-5412</a>
<a href="#">Joyce Smith</a>	<a href="#">Networks In Motion, Inc.</a>	<a href="#">(949) 555-1218</a>
<a href="#">Bob Smith</a>	<a href="#">Opp One</a>	<a href="#">(949) 555-1234</a>
<a href="#">Matt Smith</a>	<a href="#">Enterprise</a>	<a href="#">(949) 555-1217</a>
<a href="#">Joe Smith</a>	<a href="#">Hood Inc.</a>	<a href="#">(949) 555-6541</a>
<a href="#">Bill Smith</a>	<a href="#">TR Inc.</a>	<a href="#">(949) 555-1219</a>

The Contacts folder is your e-mail address book and information storage for the people and businesses you want to communicate with. Use the Contacts folder to store the e-mail address, street address, multiple phone numbers, and any other information that relates to the contact, such as a birthday or anniversary date.

FIG. 6

AtlasBook™ - Sales Edition  
Your Online Address Book with Maps, Directions,  
and Call Management
Setup | Help | Trash Bin | Logout

Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[New Contact](#) | [New Lead](#) | [New Account](#) | [New Opportunity](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:

Search

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave. Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

My Contacts: All Contacts Thursday - July 10, 2003

View By: All Contacts | Recently Edited | New this Week | Birthdays this Month | New Last Week | On the Phone

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | 123 | All

Displaying Page 1 of 5 for Contacts (5)

Previous Page | Next Page

To sort by a different column, select the appropriate column by clicking on the title.										
On	Off	Edit	Del	Name	Company	Group	Title	Phone	E-Mail	Owner
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Michael Smith	Acme Manufacturing	Business	VP	(949) 555-1212	s@acme.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Angie Smith	Lawrence Design	Business	Sales	(949) 555-1213	a@ld.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Steve Smith	Jersey Ware	Business	Sales	(949) 555-5477	st@jw.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Dima Smith	Platinum Materials	Business	CTO	(949) 555-1215	ds@pm.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Mark Smith	New Inc.	Personal		(949) 555-1216	ms@new.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Anthony Smith	Smith House	Personal		(949) 555-5412	as@s.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Joyce Smith	Networks In Motion, Inc.	Personal	EVP	(949) 555-1218	joy@nim.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Bob Smith	Opp One	Business	President	(949) 555-1234	bs@oo.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Matt Smith	Enterprise	Vendor	CMO	(949) 555-1217	ms@ent.com	AS
<input type="checkbox"/>		<a href="#">Edit</a>	<input type="checkbox"/>	Joe Smith	Hood Inc.	Vendor	CEO	(949) 555-6541	js@hood.com	AS

Records displayed per page: 5 | 10 | 25 | 50 | 75 | 100

Previous Page | Next Page

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | 123 | All

FIG. 7

**AtlasBook™ - Sales Edition** Setup | Help | Trash Bin | Logout  
 Your Online Address Book with Maps, Directions, and Call Management. Welcome Angie NIM


800

Home | **Contacts** | Leads | Accounts | Opportunities | Call History | Search | Find on Map | Directions | Reports

New Contact | New Lead | New Account | New Opportunity | My Incoming Calls | My Outgoing Calls | My Missed Calls

Search for:

My Recent Contacts  
 My Recent Places

Contact Photo:  826

Last Activity:

- Michael Smith
- Angie Smith
- Steve Smith
- Dima Smith
- Mark Smith
- Acme Manufacturing
- Opportunity One
- Account #54
- Networks In Motion, Inc.

**My Contacts: Angie M. NIM (go back)** Thursday - July 10, 2003

801      802      803      804      805

  
    
    
    
 Driving Direction:   
 To this Contact : From this Contact

<p>806</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Name:</td><td>Angie M. NIM</td></tr> <tr><td>Job Title:</td><td>Executive Officer</td></tr> <tr><td>Company:</td><td>Networks In Motion, Inc</td></tr> <tr><td>Department:</td><td>HQ</td></tr> <tr><td>Birthday:</td><td>2/1/1974</td></tr> <tr><td>Reports To:</td><td>Board</td></tr> <tr><td>Contact Source:</td><td>JPL</td></tr> </table> <p>807</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Contact Owner:</td><td>Angie M. NIM</td></tr> <tr><td>Group:</td><td>Business</td></tr> <tr><td>Type:</td><td>Contact</td></tr> </table> <p>808</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Work Address:</td><td>Map this Work Address</td></tr> <tr><td>Work Street Address:</td><td>738 Lawrence Road</td></tr> <tr><td>Work City:</td><td>Pasadena</td></tr> <tr><td>Work State:</td><td>California</td></tr> <tr><td>Work Zip:</td><td>08805</td></tr> <tr><td>Work Country:</td><td>USA</td></tr> </table> <p>809</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>E-Mail 2:</td><td>Info2@atlasbook.com</td></tr> <tr><td>E-Mail 3:</td><td>Info3@atlasbook.com</td></tr> <tr><td>Pager:</td><td>(949) 724-0480</td></tr> <tr><td>Car Phone:</td><td>(949) 724-0480</td></tr> </table> <p>810</p> <p>811</p> <p>812</p> <p>Notes: This provides a full view of your Contact Information (vCard).</p>	Name:	Angie M. NIM	Job Title:	Executive Officer	Company:	Networks In Motion, Inc	Department:	HQ	Birthday:	2/1/1974	Reports To:	Board	Contact Source:	JPL	Contact Owner:	Angie M. NIM	Group:	Business	Type:	Contact	Work Address:	Map this Work Address	Work Street Address:	738 Lawrence Road	Work City:	Pasadena	Work State:	California	Work Zip:	08805	Work Country:	USA	E-Mail 2:	Info2@atlasbook.com	E-Mail 3:	Info3@atlasbook.com	Pager:	(949) 724-0480	Car Phone:	(949) 724-0480	<p>825</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Work Phone:</td><td>(949) 724-0480</td></tr> <tr><td>Work Fax:</td><td>(949) 203-6121</td></tr> <tr><td>Mobile Phone:</td><td>(949) 254-0000</td></tr> <tr><td>Home Phone:</td><td>(949) 487-0000</td></tr> <tr><td>E-Mail Address:</td><td>Info@atlasbook.com</td></tr> <tr><td>IM Address:</td><td>Info@atlasbook.com</td></tr> <tr><td>Web Page:</td><td>http://www.AtlasBook.com</td></tr> </table> <p>824</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Created By:</td><td>Angie M. NIM, 6/14/03 5:30 PM</td></tr> <tr><td>Modified By:</td><td>Angie M. NIM, 6/14/03 5:30 PM</td></tr> <tr><td>Permissions:</td><td>Private</td></tr> </table> <p>823</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Home Address:</td><td>Map this Home Address</td></tr> <tr><td>Home Street Address:</td><td>515 South Madison</td></tr> <tr><td>Home City:</td><td>Laguna Niguel</td></tr> <tr><td>Home State:</td><td>New Jersey</td></tr> <tr><td>Home Zip:</td><td>92677</td></tr> <tr><td>Home Country:</td><td>USA</td></tr> </table> <p>822</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Home Fax:</td><td>(949) 724-0480</td></tr> <tr><td>Anniversary:</td><td>6/17/2001</td></tr> <tr><td>Spouse:</td><td>Michael</td></tr> <tr><td>Children:</td><td>None</td></tr> </table>	Work Phone:	(949) 724-0480	Work Fax:	(949) 203-6121	Mobile Phone:	(949) 254-0000	Home Phone:	(949) 487-0000	E-Mail Address:	Info@atlasbook.com	IM Address:	Info@atlasbook.com	Web Page:	http://www.AtlasBook.com	Created By:	Angie M. NIM, 6/14/03 5:30 PM	Modified By:	Angie M. NIM, 6/14/03 5:30 PM	Permissions:	Private	Home Address:	Map this Home Address	Home Street Address:	515 South Madison	Home City:	Laguna Niguel	Home State:	New Jersey	Home Zip:	92677	Home Country:	USA	Home Fax:	(949) 724-0480	Anniversary:	6/17/2001	Spouse:	Michael	Children:	None
Name:	Angie M. NIM																																																																																
Job Title:	Executive Officer																																																																																
Company:	Networks In Motion, Inc																																																																																
Department:	HQ																																																																																
Birthday:	2/1/1974																																																																																
Reports To:	Board																																																																																
Contact Source:	JPL																																																																																
Contact Owner:	Angie M. NIM																																																																																
Group:	Business																																																																																
Type:	Contact																																																																																
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Work City:	Pasadena																																																																																
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Work Country:	USA																																																																																
E-Mail 2:	Info2@atlasbook.com																																																																																
E-Mail 3:	Info3@atlasbook.com																																																																																
Pager:	(949) 724-0480																																																																																
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Work Phone:	(949) 724-0480																																																																																
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Home State:	New Jersey																																																																																
Home Zip:	92677																																																																																
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Home Fax:	(949) 724-0480																																																																																
Anniversary:	6/17/2001																																																																																
Spouse:	Michael																																																																																
Children:	None																																																																																

813

Records displayed per page: 5 | 10 | 15

814      815      816      817      818      819      820

**Call History** View More Call History for this Contact    Send an E-Mail to this Contact 821

The following displays a list of phone call you made or received from this Contact:

Call With	From Phone	To Phone	Start Time	End Time	Duration	Contact Owner
Bill Smith	(949) 555-1212	(949) 555-1212	7/12/2003 12:55 PM	7/12/2003 12:59 PM	1 Minute	Angie M. NIM
Sue Smith	(949) 555-1213	(949) 555-1213	7/12/2003 12:41 PM	7/12/2003 12:51 PM	10 Minutes	Angie M. NIM

FIG. 8

AtlasBook™ - Sales Edition  
Your Online Address Book with Maps, Directions, and Call Management.

Setup | Help | Trash Bin | Logout

Welcome Angie NIM

Home | **Contacts** | Leads | Accounts | Opportunities | Call History | Search | Find on Map | Directions | Reports

---

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**My Contacts: Angie M. NIM (go back)** Thursday - July 10, 2003

Name	Angie M. NIM	Work Phone:	(949) 724-0480
Job Title	Executive Officer	Work Fax:	(949) 203-6121
Company	Networks In Motion, Inc.	Mobile Phone:	(949) 254-0000
Department	HQ	Home Phone:	(949) 487-0000
Birthday	2/1/1974	E-Mail Address:	info@atlasbook.com
Reports To	Board	IM Address:	info@atlasbook.com
Contact Source	JPL	Web Page:	http://www.AtlasBook.com
Contact Owner	Angie M. NIM	Created By:	Angie M. NIM, 6/14/03 5:30 PM
Group	Business	Modified By:	Angie M. NIM, 6/14/03 5:30 PM
Type	Contact	Permissions	Private
Work Street Address	738 Lawrence Road	Home Street Address:	515 South Madison
Work City:	Pasadena	Home City:	Laguna Niguel
Work State:	California	Home State:	New Jersey
Work Zip:	08805	Home Zip:	92677
Work Country:	USA	Home Country:	USA
E-Mail 2:	info2@atlasbook.com	Home Fax:	(949) 724-0480
E-Mail 3:	info3@atlasbook.com	Anniversary:	6/17/2001
Pager:	(949) 724-0480	Spouse:	Michael
Car Phone:	(949) 724-0480	Children:	None

Notes: This provides a full view of your Contact Information (vCard)

Path=

FIG. 9

**AtlasBook™ - Sales Edition**  
Your Online Address Book with Maps, Directions, and Call Management.

[Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)

Welcome Angie NIM

Home
Contacts
Leads
Accounts
Opportunities
Call History
Search
Find on Map
Directions
Reports

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

1000

**My Contacts: New Contact**
Thursday - July 10, 2003

Name:		Work Phone:	
Job Title:		Work Fax:	
Company:		Mobile Phone:	
Department:		Home Phone:	
Birthday:		E-Mail Address:	
Reports To:		IM Address:	
Contact Source:		Web Page:	
Contact Owner:	Angie M. NIM	Created By:	Angie M. NIM, 6/14/03 5:30 PM
Group:	Business	Modified By:	Angie M. NIM, 6/14/03 5:30 PM
Type:	Contact	Permissions:	Private
Work Street Address:		Home Street Address:	
Work City:		Home City:	
Work State:		Home State:	
Work Zip:		Home Zip:	
Work Country:		Home Country:	
E-Mail 2:		Home Fax:	
E-Mail 3:		Anniversary:	
Pager:		Spouse:	
Car Phone:		Children:	
Notes:			

Path=

**FIG. 10**

**AtlasBook™ - Sales Edition** Setup | Help | Trash Bin | Logout  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

Home | **Contacts** | Leads | Accounts | Opportunities | **Call History** | Search | Find on Map | Directions | Reports

[New Contact](#) | [New Lead](#) | [New Account](#) | [New Opportunity](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:  Thursday - July 10, 2003

My Recent Contacts  
 My Recent Places

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**Call History: All Members**

1101 Today (Thursday - July 10, 2003)

1102 From: July 1 2003 Time: 12:00 AM

1104 To: July 1 2003 Time: 12:00 AM

1105 Member:  Type:

The following displays an overview of your team's Call History

Synchron. Phone	Full Name	Nicknames	Username	Last Phone Synchronized	Last Login	Call History		
						Incoming	Outgoing	Missed
<input type="checkbox"/>	Bill Smith	bsmith	bsmith@AtlasBook.com	7/12/2003 12:55 PM	7/12/2003 12:59 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>
<input type="checkbox"/>	Sue Smith	smith	ssmith@AtlasBook.com	7/12/2003 12:41 PM	7/12/2003 12:51 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>
<input type="checkbox"/>	Angie Smith	asmith	asmith@AtlasBook.com	7/12/2003 12:55 PM	7/12/2003 12:59 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>
<input type="checkbox"/>	Mike Smith	mmith	msmith@AtlasBook.com	7/12/2003 12:41 PM	7/12/2003 12:51 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>
<input type="checkbox"/>	Saf Smith	ssmith	ssmith@AtlasBook.com	7/12/2003 12:55 PM	7/12/2003 12:59 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>
<input type="checkbox"/>	Rich Smith	rsmith	rsmith@AtlasBook.com	7/12/2003 12:41 PM	7/12/2003 12:51 PM	<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>

FIG. 11

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[New Contact](#) | [New Lead](#) | [New Account](#) | [New Opportunity](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:  Call History: Incoming Calls (or) Outgoing Calls (or) Missed Calls for Angie M. NIM Thursday - July 10, 2003

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**Incoming/Outgoing/Missed Calls (Last 25 (or) Range 3:50 PM 7/10/2003 through 4:30 PM 7/10/2003)**

1207   1204 1205

1206   1209 1210 1211 1212

1207   1214

The following displays a list of incoming (outgoing) (missed) calls you made or received

Call With	From Phone	To Phone	Start Time	End Time	Duration	Contact Owner
Bill Smith	(949) 555-1212	(949) 555-1212	7/12/2003 12:55 PM	7/12/2003 12:59 PM	1 Minute	Angie M. NIM
Sue Smith	(949) 555-1213	(949) 555-1213	7/12/2003 12:41 PM	7/12/2003 12:51 PM	10 Minutes	Angie M. NIM
Bill Smith	(949) 555-1212	(949) 555-1212	7/12/2003 12:55 PM	7/12/2003 12:59 PM	1 Minute	Angie M. NIM
Sue Smith	(949) 555-1213	(949) 555-1213	7/12/2003 12:41 PM	7/12/2003 12:51 PM	10 Minutes	Angie M. NIM
Bill Smith	(949) 555-1212	(949) 555-1212	7/12/2003 12:55 PM	7/12/2003 12:59 PM	1 Minute	Angie M. NIM
Sue Smith	(949) 555-1213	(949) 555-1213	7/12/2003 12:41 PM	7/12/2003 12:51 PM	10 Minutes	Angie M. NIM
Bill Smith	(949) 555-1212	(949) 555-1212	7/12/2003 12:55 PM	7/12/2003 12:59 PM	1 Minute	Angie M. NIM
Sue Smith	(949) 555-1213	(949) 555-1213	7/12/2003 12:41 PM	7/12/2003 12:51 PM	10 Minutes	Angie M. NIM

Records displayed per page: [5](#) | [10](#) | [25](#) | [50](#) | [75](#) | [100](#) [Previous Page](#) | [Next Page](#)

FIG. 12

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[Find on Map](#) | [Get Driving Directions](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:  Find on Map: Thursday - July 10, 2003

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**1301 Map an Address**

1305 Recent Locations  
Recent Locations

1306 Street Address

1307 City  State  Zip Code

1310 Country  
United States

1311

**1302 Find a Place**

1312 Place Name

Tip: A place can be any feature on the map, such as a city, attraction, airport, or major landmark. White House, Los Angeles International Airport, and New York are all examples of places.

1313

**1303 Map a Area Code and Prefix**

1314 Enter Area Code and Prefix

1315 Tip: Enter (949) 449 or just (949)

**1304 Map Coordinates**

1316 Latitude (North is Positive):

1317 Longitude (East is Positive):

Tip: Enter Degrees:  
Lat = 33.6701465, Long = -117.8566594; or  
Enter Degrees & Minutes:  
Lat = 33 40.20879, Long = -117 -51.33956; or  
Enter Degrees & Minutes & Seconds  
Lat = 33 40 12.5274, Long = -117 -51 -20.3738

1318

FIG. 13

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

<a href="#">Home</a>	<a href="#">Contacts</a>	<a href="#">Leads</a>	<a href="#">Accounts</a>	<a href="#">Opportunities</a>	<a href="#">Call History</a>	<a href="#">Search</a>	<a href="#">Find on Map</a>	<a href="#">Directions</a>	<a href="#">Reports</a>
----------------------	--------------------------	-----------------------	--------------------------	-------------------------------	------------------------------	------------------------	-----------------------------	----------------------------	-------------------------

[Find on Map](#) | [Get Driving Directions](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

Find on Map: Thursday - July 10, 2003

1401 ↘ Your search for "gina" has returned the following results. Please select one:

1402 ↘  Gila (river), United States

1403 ↘  Gila (county), Arizona, United States

1404 ↘  Gila Bend mountains (mountain range), Arizona, Un

1404 ↘  Gila Mountains (mountain range), Arizona, United S

1404 ↘  Gila Mountains (mountain range), Arizona, United S

1404 ↘  Ganado Airport (airport), Arizona

FIG. 14

**AtlasBook™ - Sales Edition**  
Your Online Address Book with Maps, Directions, and Call Management

Setup | Help | Trash Bin | Logout

Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[Find on Map](#) | [Get Driving Directions](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:  Find on Map: 18872 Bardeen Avenue, Irvine, CA 92612 Thursday - July 10, 2003

**Driving Direction:**  
To this Location : From this Location

**Map an Address**


Recent Locations  
Recent Locations ▼

Street Address

City State Zip Code

Country  
United States ▼

**Zoom Controls:**  
[Zoom Out] [10] [9] [8] [7] [6] [5] [4] [3] [2] [1] [Zoom In]



1500 1501 1502 1503 1504 1505 1506 1507

FIG. 15

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[Find on Map](#) | [Get Driving Directions](#) | [My Incoming Calls](#) | [My Outgoing Calls](#) | [My Missed Calls](#)

Search for:  Thursday - July 10, 2003

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)

**Get Driving Directions:**

1). Enter starting address or select from Recent Locations

2). Enter destination address or select from Recent Locations

FIG. 16

**AtlasBook™ - Sales Edition** Setup | Help | Trash Bin | Logout  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

Home | **Contacts** | Leads | Accounts | Opportunities | Call History | Search | Find on Map | Directions | Reports

Find on Map | Get Driving Directions | My Incoming Calls | My Outgoing Calls | My Missed Calls

Search for:  Get Driving Directions: Thursday - July 10, 2003

[My Recent Contacts](#)  
[My Recent Places](#)

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**1700** → **Get Driving Directions:**

**1702** **1703** **1701**

**1704** **Destination Map** **1705** **Full Route**

**1706** **1707** **1708** **1709** **1710**

Start At: 134 Franklin Terrace, MA 02568  **1708**  
 Arrive At: 32 Canterbury Lane, MA 02568

Driving Distance: 2.2 Miles **1710**  
 Travel Time: 5 Minutes

Step	Directions	Miles	Turn
1	Start on FRANKLIN TERRACE, MA 02568	0.1	↑
2	Turn Left on JAMBOREE RD.	0.4	⤵
3	Take the I-405 ramp towards SAN DIEGO FWY	0.9	⤴
4	Turn Left on DEL OBISPO ST	1.5	⤵
5	Turn Left on EASTBOURNE BAY	1.7	⤴
6	Arrive at 32 CANTERBURY LN, MA 02568	2.2	⤵

FIG. 17

AtlasBook™ - Sales Edition  
Your Online Address Book with Maps, Directions,  
and Call Management

1800 → Setup | Help | Trash Bin | Logout

Welcome Angie NIM

1801 → [Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

1801 → Setup

Search for: 1802 →

Search

My Recent Contacts  
My Recent Places

Last Activity:

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

Setup: Angie M. NIM Thursday - July 10, 2003

1803 → [Personal Settings](#)  
Edit your personal information and change your personal password

1804 → [Tools](#)  
Import your Contacts to AtlasBook and delete groups of Contacts

1805 → [Phone Settings](#)  
Edit your current phones, add a new phone, or change your mobile access PIN

1806 → [Administration Settings](#)  
Manage your Members, add new members, change password policies, view login history and member statistics.

FIG. 18

**AtlasBook™ - Sales Edition**  
 Your Online Address Book with Maps, Directions, and Call Management

[Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)

Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)


**Setup** Thursday - July 10, 2003

Search for:

**Setup: Personal Settings: Personal Information**

**My Recent Contacts**  
**My Recent Places**

**Contact Photo:**



**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Account #54](#)
- [Networks In Motion, Inc.](#)

Username:	angienim@atlasbook.com	Permission Level:	Administrator
Nickname:	angie	User Account:	Active/Disabled
AtlasBook Newsletter:	CheckBox	Last Login:	7/15/2003 12:08 PM
Start your day:	7:00 AM	Used Space:	2,098 KB (View Details)
End your day:	11:30 PM	Time Zone:	(GMT-08:00) Pacific Daylight
Name:	Angie M. NIM	Work Phone:	(949) 724-0480
Job Title:	Executive Officer	Work Fax:	(949) 203-6121
Company:	Networks In Motion, Inc.	Mobile Phone:	(949) 254-0000
Department:	HQ	Home Phone:	(949) 487-0000
BirthDay:	2/1/1974	E-Mail Address:	info@atlasbook.com
Reports To:	Boaid	IM Address:	info@atlasbook.com
Contact Source:	JPL	Web Page:	http://www.AtlasBook.com
Contact Owner:	Angie M. NIM	Created By:	Angie M. NIM; 6/14/03 5:30 PM
Group:	Business	Modified By:	Angie M. NIM; 6/14/03 5:30 PM
Type:	Contact	Permission:	Private
Work Address:	Map this Work Address	Home Address:	Map this Home Address
Work Street Address:	738 Lawrence Road	Home Street Address:	515 South Madison
Work City:	Pasadena	Home City:	Laguna Niguel
Work State:	California	Home State:	New Jersey
Work Zip:	08805	Home Zip:	92677
Work Country:	USA	Home Country:	USA
E-Mail 2:	info2@atlasbook.com	Home Fax:	(949) 724-0480
E-Mail 3:	info3@atlasbook.com	Anniversary:	6/17/2001
Pager:	(949) 724-0480	Spouse:	Michael
Car Phone:	(949) 724-0480	Children:	None
Notes:	This provides a full view of your Contact information (vCard).		

FIG. 19A

**AtlasBook™ - Sales Edition**  
Your Online Address Book with Maps, Directions, and Call Management

[Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)

Welcome Angie NIM

[Home](#)

[Contacts](#)

[Leads](#)

[Accounts](#)

[Opportunities](#)

[Call History](#)

[Search](#)

[Find on Map](#)

[Directions](#)

[Reports](#)

Setup


**Search for:**

[My Recent Contacts](#)  
[My Recent Places](#)

---

**Contact Photo:**




---

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Account #54](#)
- [Networks In Motion, Inc.](#)

**Setup: Personal Settings: Personal Information (Group Permissions)** Thursday - July 10, 2003

**Group Permissions:**

Unfiled	Public/Private (Default Public)
Business	Public/Private (Default Public)
Personal	Public/Private (Default Public)
Family	Public/Private (Default Public)
Friends	Public/Private (Default Public)
Colleagues	Public/Private (Default Public)
School	Public/Private (Default Public)
VIP	Public/Private (Default Public)
Favorites	Public/Private (Default Public)
Competition	Public/Private (Default Public)
Suppliers	Public/Private (Default Public)
International	Public/Private (Default Public)
Miscellaneous	Public/Private (Default Public)

FIG. 19B


**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup**

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Contact Photo:**  


**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Account #54](#)
- [Networks In Motion, Inc.](#)

**Setup: Personal Settings: Personal Information (Login History)** Thursday - July 10, 2003

1950  
 1951 Login History: Angie M. NIM 1952 1953

Login Time	Login IP Address	Login Event
7/15/2003 12:08:17 PM PDT	128.168.145.215	Success
7/15/2003 12:09:17 PM PDT	128.168.145.215	Success
7/15/2003 12:10:17 PM PDT	128.168.145.215	Failure
7/15/2003 12:11:20 PM PDT	128.168.145.215	Success
7/15/2003 12:18:27 PM PDT	128.168.145.215	Failure
7/15/2003 12:19:17 PM PDT	128.168.145.215	Success
7/15/2003 12:38:17 PM PDT	128.168.145.215	Success
7/15/2003 12:48:17 PM PDT	128.168.145.215	Success

FIG. 19C

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

[Setup](#) 2000

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

Setup: Phone Setup: Current Phone Assignments Thursday - July 10, 2003

---

2001

Phone Assignments	Activated	Remove from Account
(949) 254-4874	7/15/2003 12:11:20 PM PDT	<input type="button" value="Remove"/>
(949) 254-4823	7/15/2003 12:11:20 PM PDT	<input type="button" value="Remove"/>
(949) 254-4234	7/15/2003 12:11:20 PM PDT	<input type="button" value="Remove"/>
(949) 254-4812	7/15/2003 12:11:20 PM PDT	<input type="button" value="Remove"/>

FIG. 20

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup** Thursday - July 10, 2003

**Setup: Phone Setup: Add a Phone**

2100

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

2101 Username: [angienim@atlasBook.com](mailto:angienim@atlasBook.com)

Add up to 4 Phones at a time to your username account

2102 Enter Phone Number	2103 Enter Pin Provided By Phone
(949) 254-4874	56879

2104

To add a phone to your account, enter the phone number and the pin code provide to you by the wireless phone from the About screen. This will register your phone to your account. You can associated as many phones to your users name as you like.

FIG. 21

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup** Thursday - July 10, 2003

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**Setup: Phone Setup: Change Mobile Access PIN**

2201	2202
2203 Username	angienim@atlasbook.com
2204 New Mobile PIN:	
Verify New Mobile PIN:	

2205

Your Mobile PIN has been set to: 3847

FIG. 22

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup** Thursday - July 10, 2003

**Setup: Administration Settings (Manage Members)**

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrace, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

2302 A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|123|All 2304

2303 2306 2307 2308 2309 2310 2311

2301 Displaying Page 1 of 5 for Contacts (All) Previous Page | Next Page

To sort by a different column, select the appropriate column by clicking on the title						
Edit	Password Reset	Name	Username	Nickname	Account	Permission Level
Edit	<input type="checkbox"/>	Michael Smith	msmith@atlasbook.com	Michael	Active	Administrator
Edit	<input type="checkbox"/>	Angie Smith	asmith@atlasbook.com	Angie	Active	Account Manager
Edit	<input type="checkbox"/>	Steve Smith	ssmith@atlasbook.com	Steve	Disabled	Administrator
Edit	<input type="checkbox"/>	Dima Smith	dsmith@atlasbook.com	Dima	Active	Account Manager
Edit	<input type="checkbox"/>	Mark Smith	msmith@atlasbook.com	Mark	Disabled	Administrator
Edit	<input type="checkbox"/>	Anthony Smith	asmith@atlasbook.com	Anthony	Active	Administrator
Edit	<input type="checkbox"/>	Joyce Smith	jsmith@atlasbook.com	Joyce	Active	Administrator
Edit	<input type="checkbox"/>	Bob Smith	bsmith@atlasbook.com	Bob	Disabled	Administrator
Edit	<input type="checkbox"/>	Matt Smith	msmith@atlasbook.com	Matt	Active	Account Manager
Edit	<input type="checkbox"/>	Joe Smith	jsmith@atlasbook.com	Joe	Active	Account Manager

230 Update

Records displayed per page: 5 | 10 | 25 | 50 | 75 | 100 Previous Page | Next Page

2312 A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z|123|All

FIG. 23

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup** 2400

---

**Setup: Administration Settings (Password Polices)** Thursday - July 10, 2003

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Michael Smith](#)
- [Angie Smith](#)
- [Steve Smith](#)
- [Dima Smith](#)
- [Mark Smith](#)
- [Acme Manufacturing](#)
- [Opportunity One](#)
- [Directions: 134 Franklin Terrance, MA 02568](#)
- [Map: 18872 Bardeen Ave, Irvine, CA 92612](#)
- [Lawrence Design](#)
- [Jersey Ware](#)

**2401 Password Polices:**

<b>2402</b> User passwords expire every	<b>2405</b> 15 Days <b>2406</b>
<b>2403</b> Maximum invalid login attempts	5
Lockout effective period	30 minutes

**2404**   **2407**

**FIG. 24**

**AtlasBook™ - Sales Edition** [Setup](#) | [Help](#) | [Trash Bin](#) | [Logout](#)  
 Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

[Home](#) | [Contacts](#) | [Leads](#) | [Accounts](#) | [Opportunities](#) | [Call History](#) | [Search](#) | [Find on Map](#) | [Directions](#) | [Reports](#)

**Setup** 2500

**Setup: Administration Settings (Member Statistics)** Thursday - July 10, 2003

Search for:

2501 Total Contacts: 34,024  
 2502 Total Disk Usage: 12,736 KB  
 2503

2504 A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 123 | All

2505 Displaying Page 1 of 5 for Contacts (All) 2506 2507 2508 2509 Previous Page | Next Page

Name	Username	Contacts	On the Phone	Disk Usage
Michael Smith	msmith@atlasbook.com	50	50	50 KB
Angie Smith	asmith@atlasbook.com	75	75	83 KB
Steve Smith	ssmith@atlasbook.com	568	400	250 KB
Dima Smith	dsmith@atlasbook.com	1253	536	520 KB
Mark Smith	msmith@atlasbook.com	1253	1254	5120 KB
Anthony Smith	asmith@atlasbook.com	1253	1246	520 KB
Joyce Smith	jsmith@atlasbook.com	5368	1425	1250 KB
Bob Smith	bsmith@atlasbook.com	1253	758	5210 KB
Matt Smith	msmith@atlasbook.com	1253	1251	1250 KB
Joe Smith	jsmith@atlasbook.com	1254	1251	3250 KB

2511 Records displayed per page: 5 | 10 | 25 | 50 | 75 | 100 Previous Page | Next Page

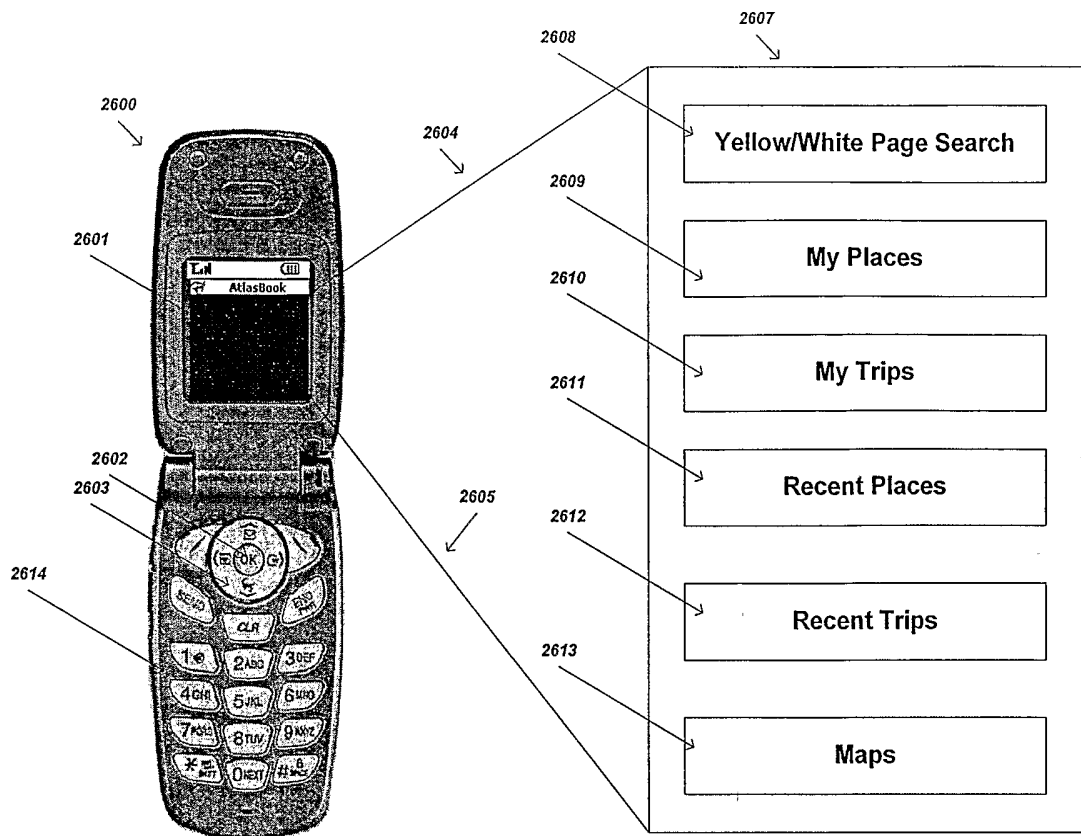
A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 123 | All

**My Recent Contacts**  
[My Recent Places](#)

**Last Activity:**

- Michael Smith
- Angie Smith
- Steve Smith
- Dima Smith
- Mark Smith
- Acme Manufacturing
- Opportunity One
- Directions: 134 Franklin Terrance, MA 02568
- Map: 18872 Bardeen Ave, Irvine, CA 92612
- Lawrence Design
- Jersey Ware

FIG. 25



**FIG. 26**

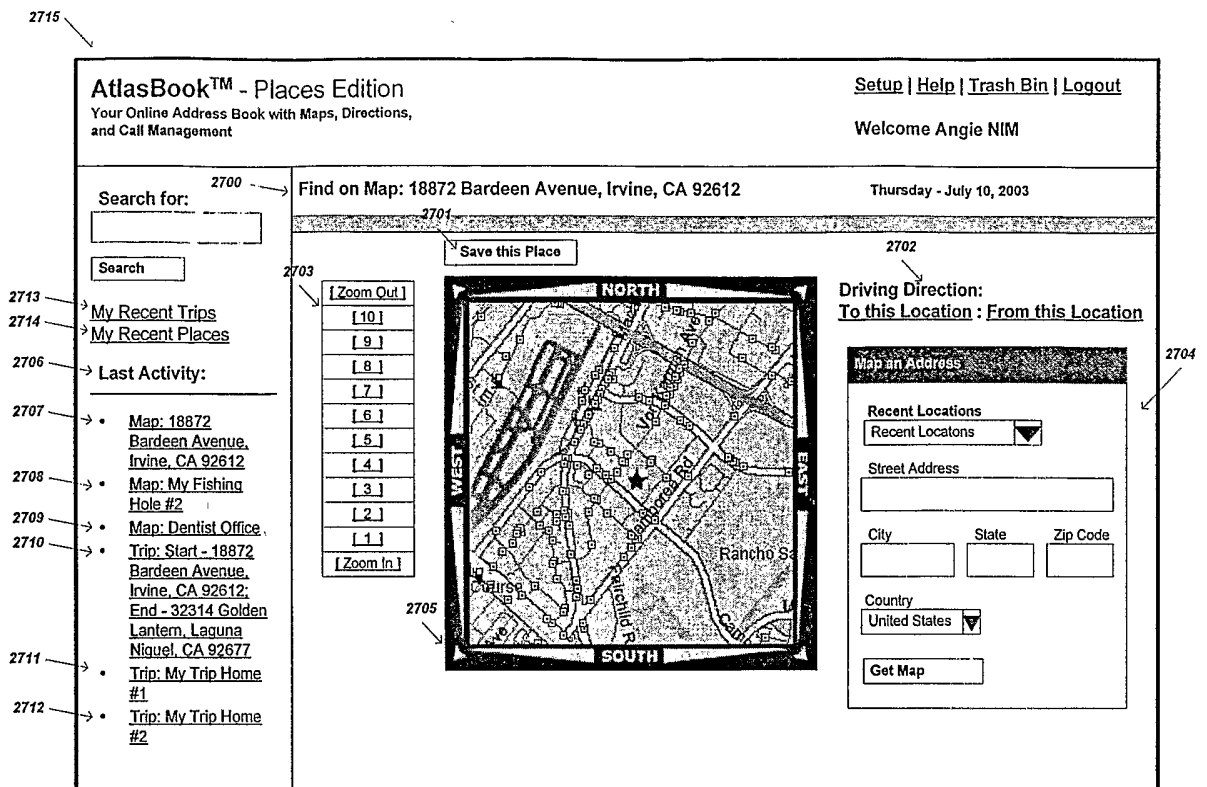


FIG. 27

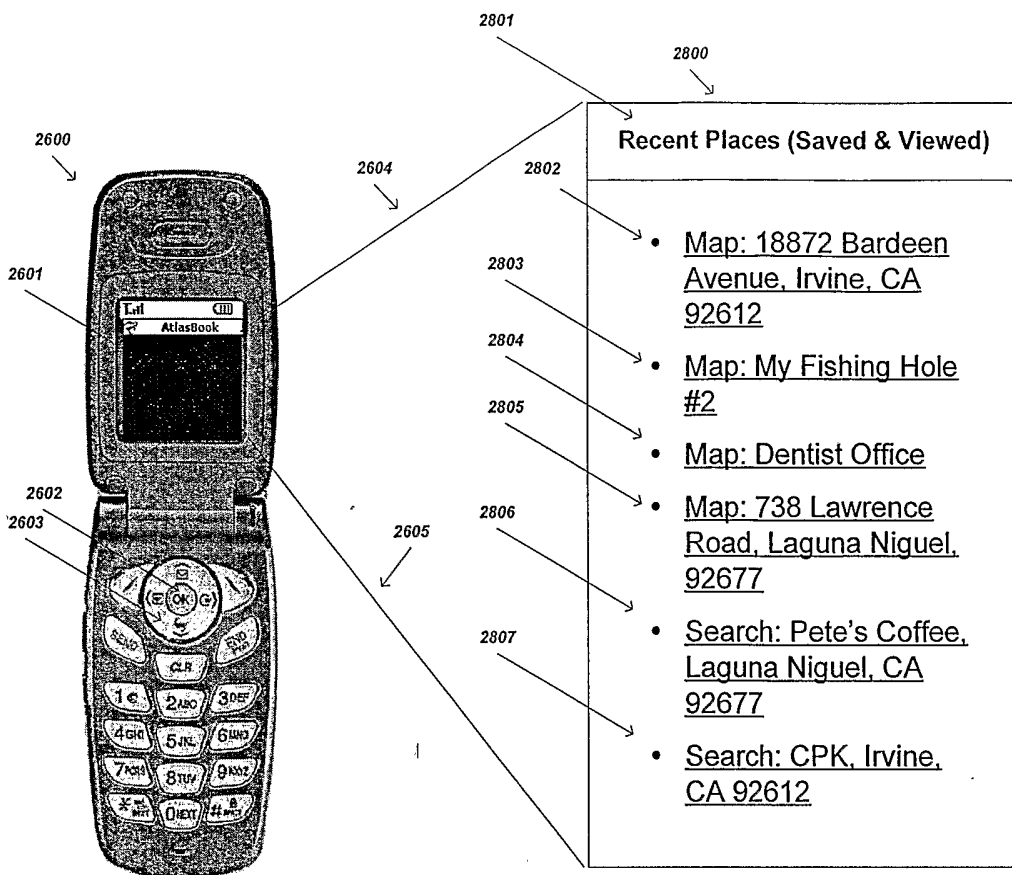


FIG. 28A

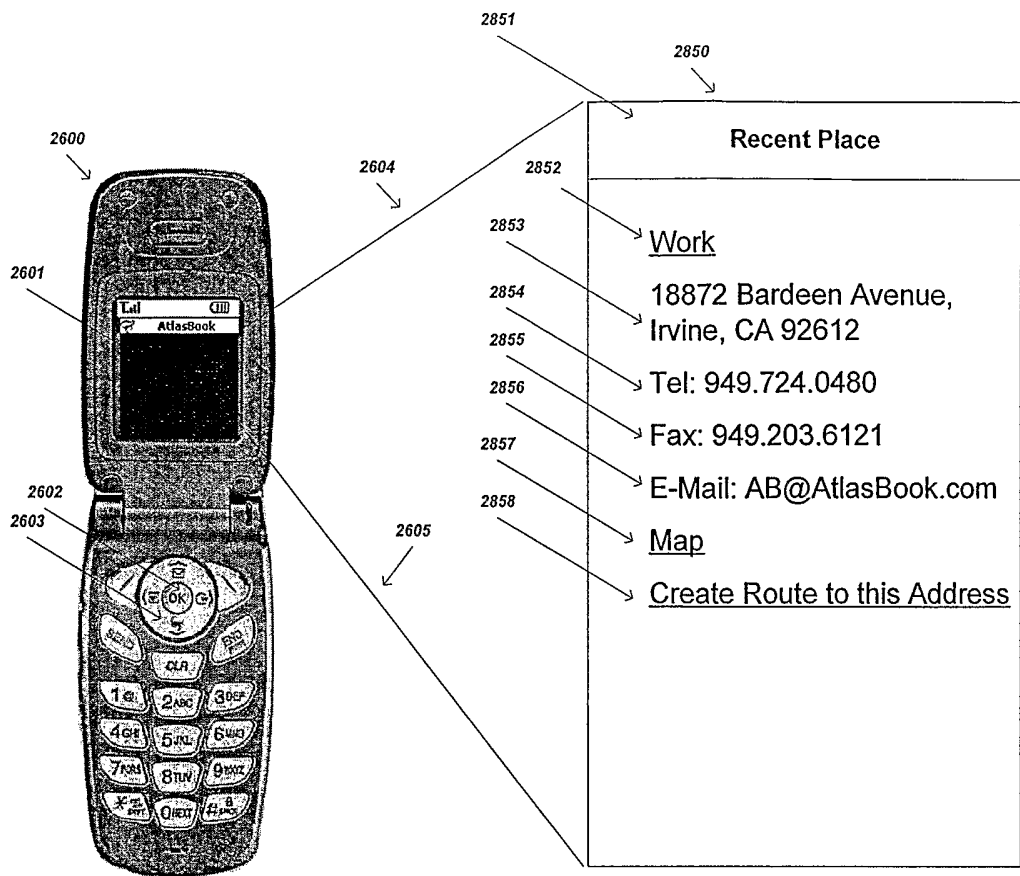


FIG. 28B

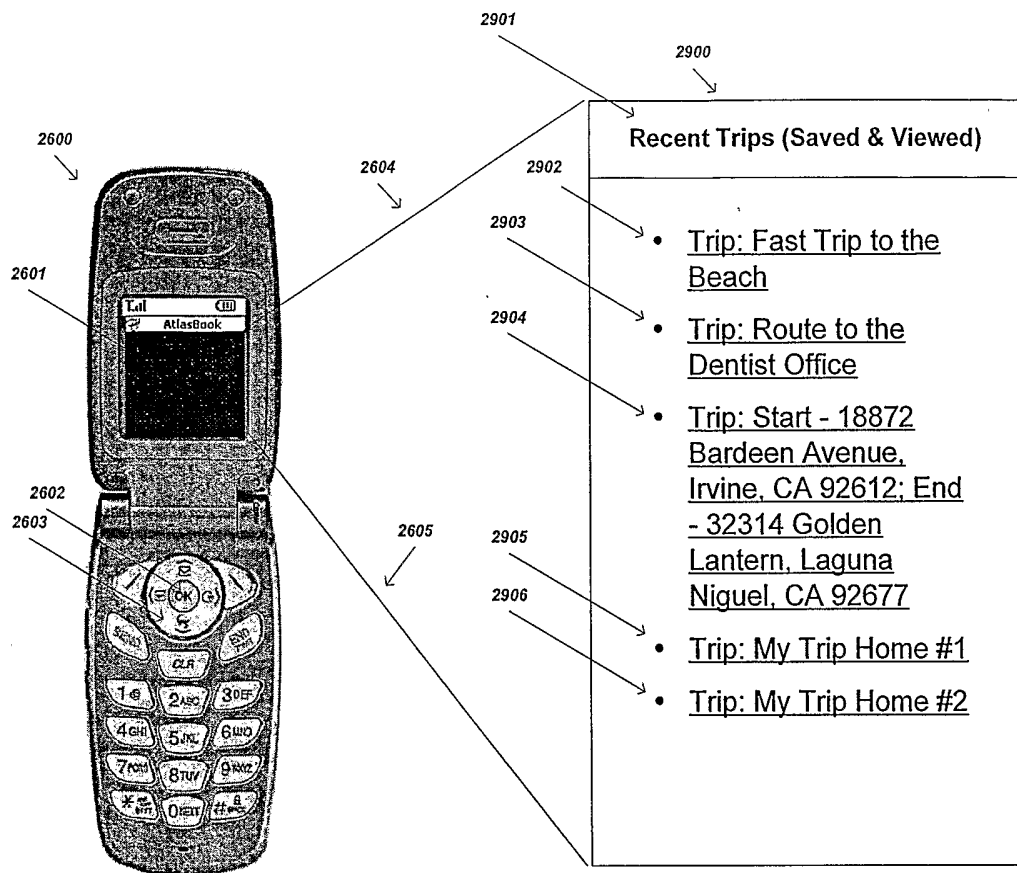


FIG. 29

3028 ↘

**AtlasBook™ - Places Edition** Setup | Help | Trash Bin | Logout  
Your Online Address Book with Maps, Directions, and Call Management Welcome Angie NIM

---

**Trip with Photographs** Thursday - July 10, 2003

Search for:

[My Recent Contacts](#)  
[My Recent Places](#)

**Last Activity:**

- [Map: 18872 Bardeen Avenue, Irvine, CA 92612](#)
- [Map: My Fishing Hole #2](#)
- [Map: Dentist Office](#)
- [Trip: Start - 18872 Bardeen Avenue, Irvine, CA 92612; End - 32314 Golden Lantern, Laguna Niguel, CA 92677](#)
- [Trip: My Trip Home #1](#)
- [Trip: My Trip Home #2](#)

Start At:	738 Lawrence Road, CA 92677	Add to Place	
Arrive At:	8 Larkfield, Pasadena, CA 91106	Add to Place	

Driving Distance:	2.2 Miles
Travel Time:	6 Minutes

FIG. 30