

**METHOD OF PROVIDING A CELLULAR PHONE/PDA
COMMUNICATION SYSTEM
DESCRIPTION**

METHOD TO PROVIDE AD HOC AND PASSWORD PROTECTED DIGITAL AND
VOICE NETWORKS

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of co-pending U.S. Patent Application Serial No.

13/751,453 filed January 28, 2013, which is a continuation-in-part of U.S. Patent Application

Serial No. 12/761,533 filed on April 16, 2010, now U.S. Patent No. 8,364,129 issued January 29, 2013, which is a continuation-in-part of U.S. Patent Application Serial No. 11/615,472 filed on

December 22, 2006, now U.S. Patent No. 8,126,441 issued on February 28, 2012, which is a continuation-in-part of U.S. Patent Application Serial No. 11/308,648 filed April 17, 2006, now

U.S. Patent No. 7,630,724 issued on December 8, 2009, which is a continuation-in-part of U.S.

Patent Application Serial No. 10/711,490, filed on September 21, 2004, now U.S. Patent No. 7,031,728 issued on April 18, 2006.

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] A communications method and system using a plurality of cellular phones each

having an integrated Personal Digital Assistant (PDA) and Global Positioning System (GPS)

receiver for the management of two or more people through the use of a communications

network. The method and system provide each user with an integrated handheld

~~(Para 1) This invention relates generally to an integrated communications system using a plurality of cellular/PDA/GPS phones for the management of a group of people through the use of a communications net and, specifically, to provide each user with a~~ cellular/PDA/GPS/phone that has ~~software~~ Advanced Communication Software application programs ~~and databases~~ that permit all the users to continuously know each other's locations

(hereinafter referred to as ACS) and databases used in conjunction with a remote Server that

enable a user to quickly establish a communication network of cell phone participants having a

common temporary ad hoc network using mobile wireless communication devices.

~~and status, to rapidly call and communicate voice, high speed internet data, photographs and video clips among the users by touching display screen symbols and to enable the users to easily access data concerning other users and other database information.~~[0003] The invention includes a method and communication system to quickly set up and provide ad hoc, password protected, digital and voice networks to allow a group of people to be able to set up a network easily and rapidly, especially in an emergency situation.

Description of Related Art

~~(Para 2)~~[0004] The purpose of a communications system is to transmit **information bearing signals**digital messages from a source, located at one point, to ~~a~~user destinationdestination(s), located at ~~another point~~other point(s) some distance away. A communications system is generally comprised of three basic elements: transmitter, information channel and receiver. One form of communication in recent years is cellular phone telephony. A network of cellular communication systems set up around an area such as the United States allows multiple users to talk to each other, either on individual calls or on group calls. Some cellular phone services enable a cellular phone to engage in conference calls with a small number of users. Furthermore, cellular conference calls can be established through 800 number services. Cellular telephony also now includes systems that include ~~Global Positioning System (GPS)~~ navigation that utilizes satellite navigation. These devices thus unite cellular phone technology with navigation information, computer information transmission and receipt of data.

~~(Para 3) Digital Smart Message Service (SMS) and TCP/IP messages can be transmitted using cellular technology such as various versions of GSM and CDMA or via a WiFi local area~~

[0005] The method and operation of communication devices used herein are described in

U.S. Patent 7,031,728 which is hereby incorporated by reference and U.S. Patent No. 7,630,724.

[0006] Military, first responder, and other public and private emergency groups need to be able to set up ad hoc digital and voice networks easily and rapidly. These private networks may be temporary or longer lasting in nature. The users need to be able to rapidly coordinate their activities eliminating the need for pre-entry of data into a web and or identifying others by name, phone numbers or email addresses so that all intended participants that enter the agreed ad hoc

~~network. One implementation of these GPS location reporting cellular systems is for the data to go to a remote central site where the information is displayed for a person to monitor the locations of the cellular units that have the combined cellular GPS phone. Another implementation permits the cellular phone users to also view the location of other GPS equipped units. A drawback of the current implementation is that these systems are either all on or all off. There is no way to selectively activate participants or to stop the participants from participating in the network or for participants to set their reporting intervals that is based on time or distance traveled. The use of the current combined cellular phone/PDA technology has drawbacks when calling. When an operator makes a cellular phone call using the PDA to display a map (that also may depict geo-referenced businesses, homes and other facilities' locations and phone numbers), the cellular phone/PDA operator is required to display the numeric phone number by touching the display screen at the correct location of that entity on the map, memorize the numeric phone number, and select a different display to physically enter the phone number to make the call and then, if desired, go back to the map display. Needless to say, this is a cumbersome process. Sending a text message or an email to a location, business, home or facility that appears on a PDA map display or to another cellular phone can also be a cumbersome process as the PDA operator has to find the phone number or email address of the location on the map display, memorize the phone number or email address, then go to a different display to enter a text message, enter the text message, send the text message and then shift back to the map display program. Furthermore, for a phone to send data concerning a new entity of interest, not currently on the geo-referenced map display (car, person, tank, accident, or other entity), the operator must type in the information and the latitude and longitude of the new entity of interest.~~

~~(Para 4) U.S. Patent Application No. 2003/0139150 published July 24, 2003 shows a portable navigation and communication system. In one~~

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