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(54) **SYSTEMS AND METHODS FOR PROVIDING  
A PASSWORD RESET FEATURE**

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**ABSTRACT**

A method for providing a voicemail password reset feature can include receiving a password reset request message (220) from a mobile device (118) at a voicemail system (102), resetting a current password to a default password (222) at the voicemail system (102), and sending a response message request (224) to a short message service center (122). The response message request can include a request to generate a response message that includes the default password. The method can further include generating the response message at the short message center (122) and sending the response message (226) to the mobile device (118), wherein the response message includes the default password. A system for providing a voicemail password reset feature and a computer-readable medium for initiating a voicemail password reset from a mobile device (118).

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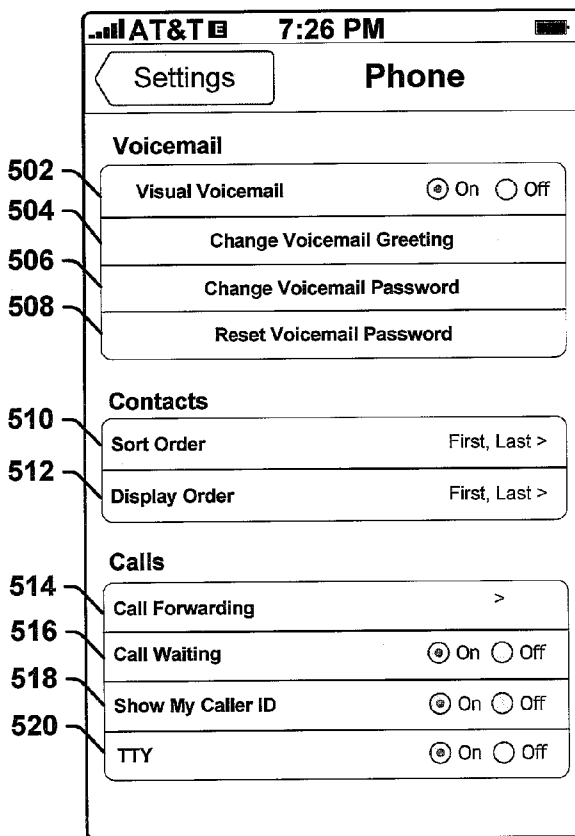
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§ 371 (c)(1),  
(2), (4) Date: **Jul. 15, 2008**

500 →



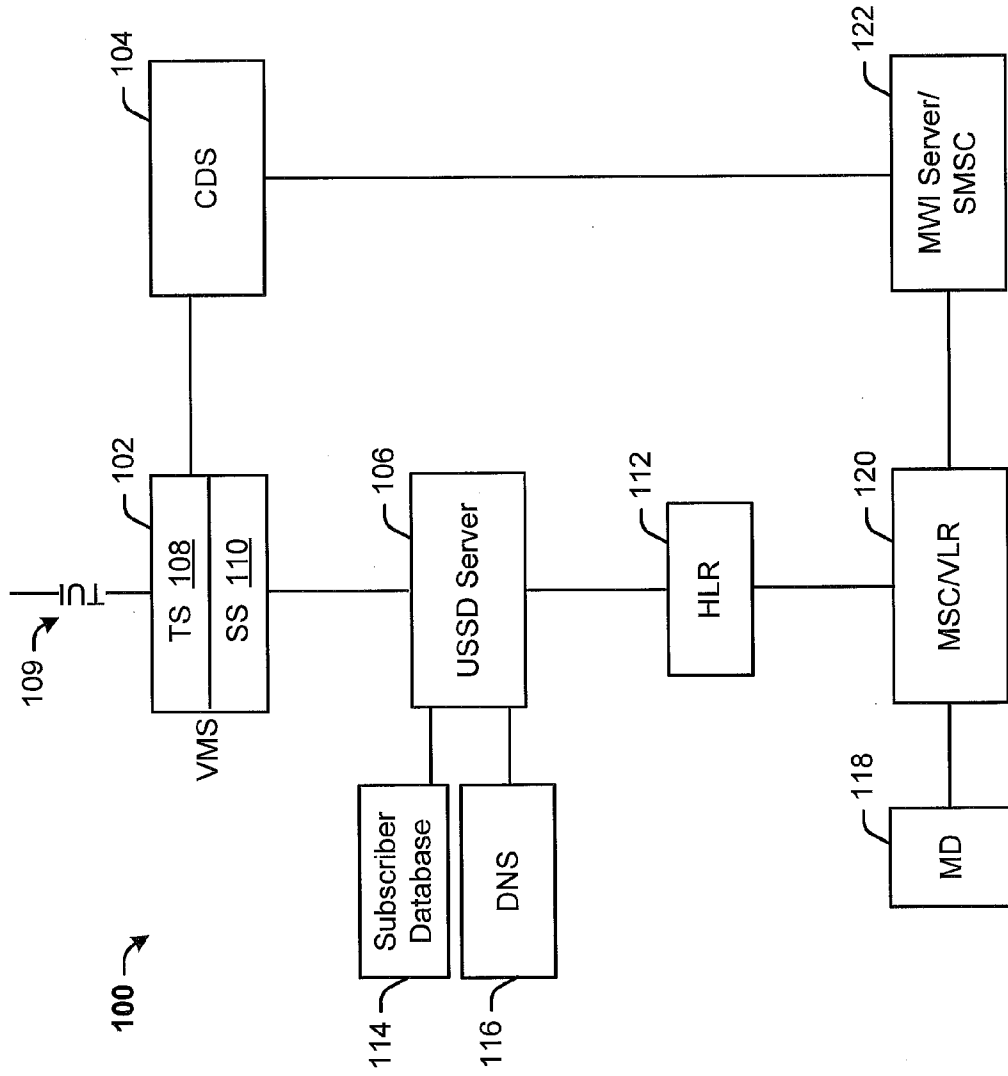


FIG. 1

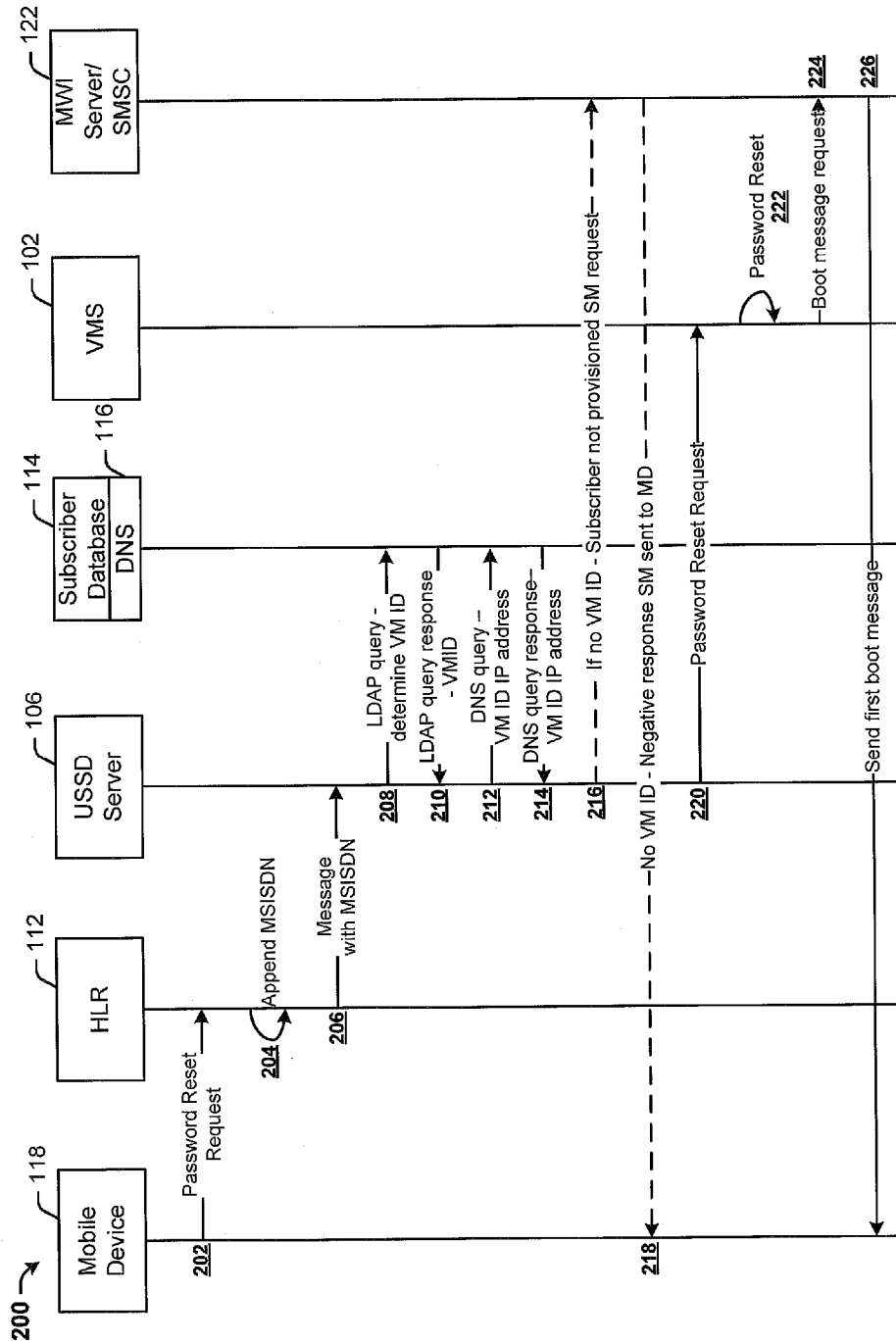


FIG. 2

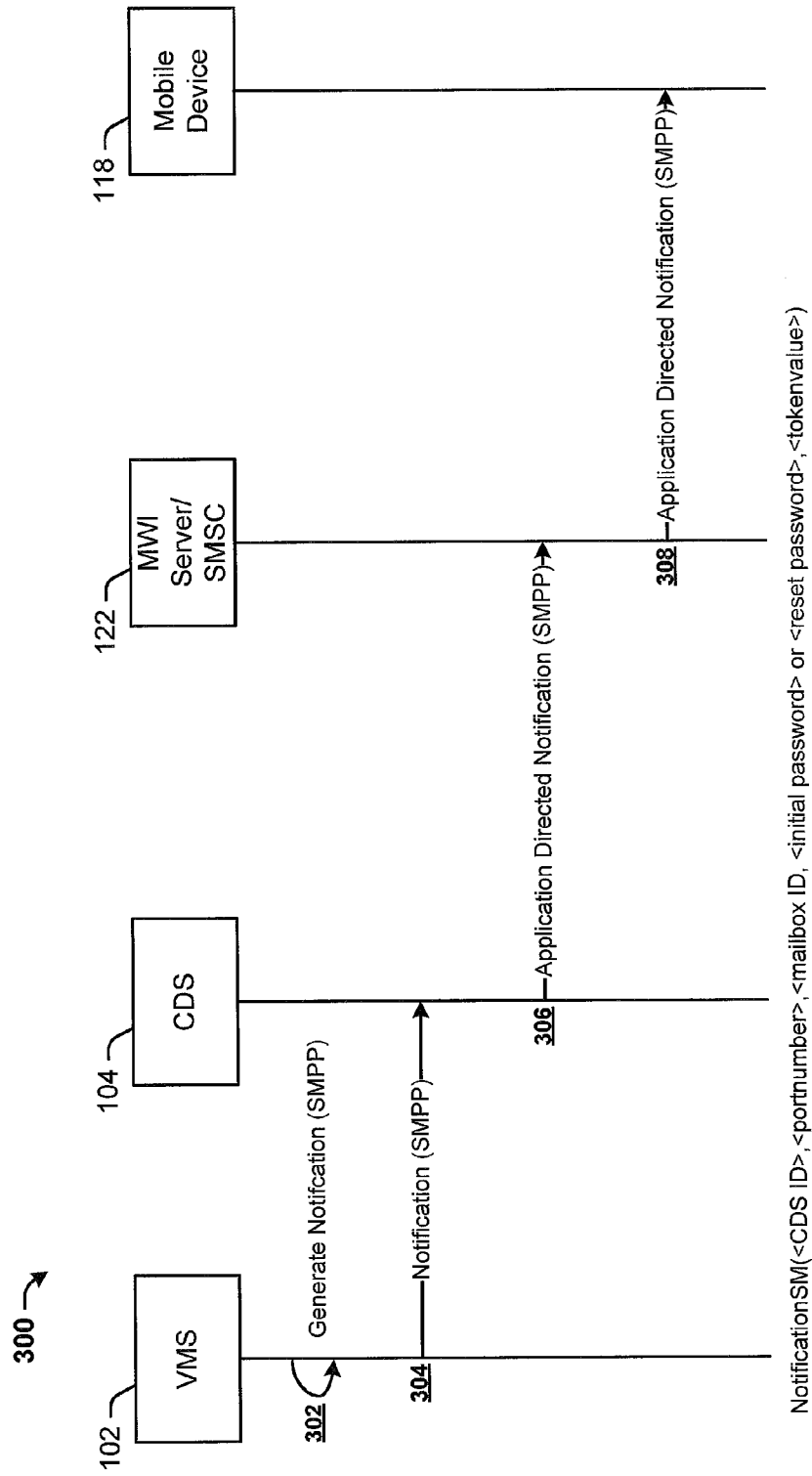


FIG. 3

118 →

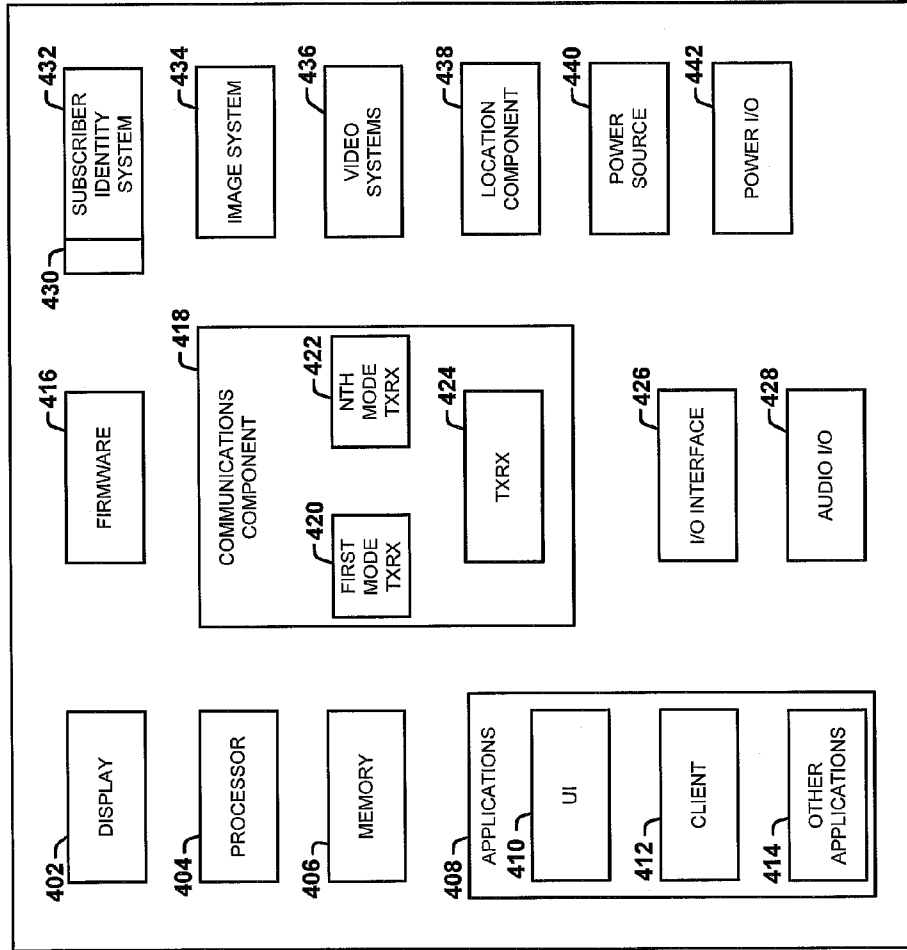


FIG. 4

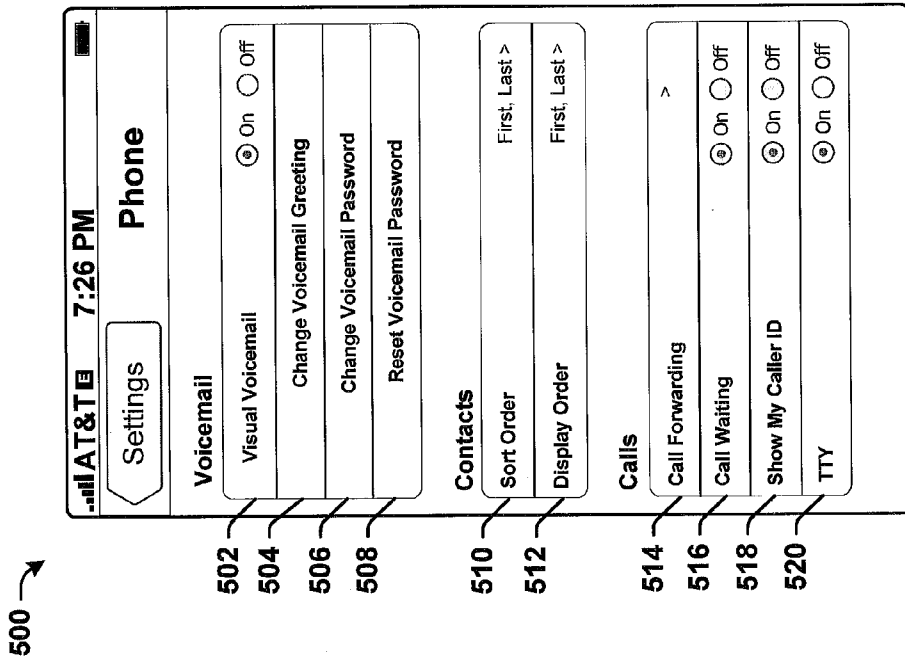


FIG. 5

## SYSTEMS AND METHODS FOR PROVIDING A PASSWORD RESET FEATURE

### RELATED APPLICATION

**[0001]** This application claims priority to U.S. Provisional Patent Application Ser. No. 60/969,419, filed Aug. 31, 2007, the entirety of which is hereby incorporated by reference.

### TECHNICAL FIELD

**[0002]** The present disclosure relates generally to voicemail and, more particularly, to providing a voicemail password reset feature.

### BACKGROUND

**[0003]** Voicemail systems allow a caller to leave a voice message if the desired recipient is unavailable. Traditional voicemail systems (referred to herein as plain old voicemail or POVM) allow a subscriber to place a call to a voicemail system to access messages stored in his or her voicemail box. This is done through a telephone user interface (TUI) that facilitates interaction between the subscriber and the voicemail system. The TUI provides functions for the subscriber to listen to messages, skip messages, delete messages, and save messages. The TUI can also provide functions for the subscriber to set a voicemail greeting, record a voicemail greeting, record a name, and set/change a password.

**[0004]** With some voicemail systems, a subscriber with multiple voicemail messages is required to listen to, skip, delete, or save each message while reviewing the voicemail box. This is time consuming and can be frustrating for the subscriber in situations where an important message has been deposited, requiring the subscriber to listen to, skip, delete or save each message in search of the important message.

**[0005]** To help reduce the need to search through multiple messages, various improved voicemail systems have been developed that allow messages to be stored based on a priority scheme to increase the efficiency of listening to voicemail messages. Often, these systems use a telephone number of the caller to identify a priority for a message and position the voicemail messages in order based on the assigned priorities. When the recipient accesses the voicemail system to acquire voicemail messages, the recipient is presented with each voicemail message in order of the priority or importance to the recipient. This reduces unwanted listening or skipping through multiple voicemail messages to find an important message. However, an important message can easily be relegated to a position of low importance if the subscriber has not previously set the priority for the caller. In this system, the priority for an incoming voicemail message is determined directly by the telephone number associated with the caller.

**[0006]** The aforementioned systems often fail to allow a subscriber to select the exact voicemail message the subscriber would like to hear. Further, the aforementioned systems require the use of a TUI to access the voicemail system to listen to voicemail messages and manage a voicemail account. Still further, these systems merely notify a subscriber of a pending voicemail message with a message waiting indicator (MWI) and require that the subscriber access the voicemail system to retrieve the pending message(s).

**[0007]** Thus, it is desirable to create new enhanced voicemail systems and novel methods for providing visual voicemail (VVM) services. Moreover, there is a need to be able to reset a voicemail password directly from a subscriber's mobile device.

### SUMMARY

**[0008]** A method for providing a voicemail password reset feature can include receiving a password reset request message from a mobile device at a voicemail system, resetting a current password to a default password at the voicemail system, and sending a response message request to a short message service center (SMSC). The response message request can include a request to generate a response message that includes the default password. The method can further include generating the response message at the short message service center and sending the response message to the mobile device. The response message can include the default password.

**[0009]** The aforementioned method can further include generating the password reset request message at the mobile device in response to an input received on the mobile device.

**[0010]** In one embodiment, the password reset request message is an unstructured supplementary service data (USSD) message. In another embodiment, the password reset request message is a short message service (SMS) message.

**[0011]** In one embodiment, the response message is an unstructured USSD message. In another embodiment, the response message is a SMS message.

**[0012]** A system for providing a voicemail password reset feature includes a mobile device that can be configured to generate a password reset request message in response to an input and send the password reset request to a voicemail server. The voicemail server can be configured to receive the password reset request message, reset a current password to a default password, and send a response message request to a short message service center. The response message request can include a request to generate a response message that includes the default password. The short message service center can be configured to generate the response message and send the response message including the default password to the mobile device.

**[0013]** In one embodiment, the password reset request message is an unstructured supplementary service data (USSD) message. In another embodiment, the password reset request message is a short message service (SMS) message.

**[0014]** In one embodiment, the response message is an unstructured USSD message. In another embodiment, the response message is a SMS message.

**[0015]** A computer-readable medium on a mobile device includes computer-executable instructions that, when executed, perform the steps of receiving a selection of an option to reset a voicemail password and generating a password reset request message based upon the selection. The password reset request can include a request to reset a password from a current password to a default password. The computer-readable medium can further include instructions to perform the steps of sending the password reset request message to a voicemail system and receiving a response message including the default password.

**[0016]** In one embodiment, the password reset request message is an unstructured supplementary service data (USSD) message. In another embodiment, the password reset request message is a short message service (SMS) message.

**[0017]** In one embodiment, the response message is an unstructured USSD message. In another embodiment, the response message is a SMS message.

### BRIEF DESCRIPTION OF THE DRAWINGS

**[0018]** FIG. 1 illustrates a portion of an exemplary network in which some concepts the present disclosure can be practiced.

**[0019]** FIG. 2 illustrates an exemplary message flow diagram of a process for handling a password reset request, according to one embodiment of the present disclosure.

**[0020]** FIG. 3 illustrates an exemplary message flow diagram of a process for handling a boot message in response to a password reset request, according to the present disclosure.

**[0021]** FIG. 4 schematically illustrates an exemplary mobile device and components thereof for use in accordance with an embodiment of the present disclosure.

**[0022]** FIG. 5 illustrates an exemplary graphical user interface (GUI) screen for accessing phone functions including an option for resetting a voicemail password, according to the present disclosure.

#### DETAILED DESCRIPTION

**[0023]** As required, detailed embodiments of the present disclosure are disclosed herein. It must be understood that the disclosed embodiments are merely exemplary examples of the disclosure that may be embodied in various and alternative forms, and combinations thereof. As used herein, the word “exemplary” is used expansively to refer to embodiments that serve as an illustration, specimen, model or pattern. The figures are not necessarily to scale and some features may be exaggerated or minimized to show details of particular components. In other instances, well-known components, systems, materials or methods have not been described in detail in order to avoid obscuring the present disclosure. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a basis for the claims and as a representative basis for teaching one skilled in the art to variously employ the present disclosure.

**[0024]** Referring now to the drawings wherein like numerals represent like elements throughout the several views, FIG. 1 schematically illustrates a portion of an exemplary wireless communications network **100** in which embodiments of the present disclosure can be implemented. By way of example, the wireless communications network **100** can be configured as a 2G GSM (Global System for Mobile communications) network and can provide data communications via GPRS (General Packet Radio Service), and EDGE (Enhanced Data rates for GSM Evolution). By way of further example, the wireless communications network **100** can be configured as a 3G UMTS (Universal Mobile Telecommunications System) network and provide data communications via the HSPA (High-Speed Packet Access) protocol family, such as, HSDPA (High-Speed Downlink Packet Access), EUL (Enhanced Uplink) or otherwise termed HSUPA (High-Speed Uplink Packet Access), and HSPA+ (Evolved HSPA). The wireless communications network **100** is also compatible with future mobile communications standards including, but not limited to, pre-4G and 4G, for example. The wireless communications network **100** can be configured to provide messaging services via Short Message Service (SMS), Multimedia Message Service (MMS), instant messaging and unstructured supplementary service data (USSD), for example. The wireless communications network **100** can also be configured to provide advanced voicemail messaging features, such as visual voicemail.

**[0025]** The illustrated wireless communications network **100** includes a voicemail system (VMS) **102** that is illustrated as being in communication with a content delivery server (CDS) **104** and an unstructured supplementary service data (USSD) server **106**. The VMS **102** can include a telephony

server (TS) **108** for handling incoming voicemail inquiries via a telephone user interface (TUI) **109** and a storage server (SS) **110** for storing and managing voicemail messages for a plurality of voicemail accounts. The USSD server **106** can be configured to receive, decode, and process new USSD messages; perform database queries to retrieve the VMS hostname serving a subscriber; perform database queries to resolve the VMS hostname to the corresponding IP address; obtain the subscriber’s voicemail class of service (COS); and send the subscriber’s voicemail COS to the subscriber’s mobile device. The USSD server **106** is illustrated as being in communication with a home location register (HLR) **112**, a subscriber database **114**, and a domain name server (DNS) **116** to facilitate these functions. The USSD server **106** can be further configured to handle a password reset request message received from the MD **118**. A password reset request message can be used to reset a voicemail password directly from the MD **118** without the need to call the VMS **102** via the TUI **109**. The MD **118** can be, but is not limited to, a user equipment, a mobile terminal, a cellular telephone, a personal digital assistant (PDA), a handheld computer, or combinations thereof, and the like.

**[0026]** The subscriber database **114** can be configured to store and manage subscriber data, such as, for example, account information, billing information, services information, and equipment information for a plurality of subscribers. The DNS server **116** can be configured to maintain a database for resolving host names and IP addresses for various network nodes, such as the VMS **102**, for example. The USSD server **106** can retrieve the VMS hostname serving a subscriber from the subscriber database **114** and query the DNS **116** by specifying the VMS hostname to resolve the corresponding IP address.

**[0027]** The HLR **112** can be configured to provide routing information for mobile-terminated calls and short message service (SMS) messages. The HLR **112** is illustrated as being in communication with a mobile switching center (MSC) and visiting location register (VLR) **120**. The MSC/VLR **120** is in communication with the MD **118** and a short message service center (SMSC) **122**. The SMSC **122** can be configured to delivery SMS messages and message waiting indicator (MWI) messages.

**[0028]** The VMS **102** can be configured to store a plurality of voicemail accounts. Each voicemail account can include a voicemail box in which voicemail messages can be deposited for a subscriber. The number of voicemail messages capable of being stored per account can be determined by the voicemail service provider or any third party provider, such as the system manufacturer, for example. The maximum voicemail message length can also be set. The number of voicemail messages and the maximum voicemail message length can be configured on the VMS **102**.

**[0029]** Prior to a subscriber being provisioned for visual voicemail service, the voicemail box is in a not provisioned state. After being provisioned for visual voicemail service, the subscriber’s voicemail box state is changed to provisioned—not initialized to reflect that the subscriber is provisioned for service but has not yet initialized service via a boot message process described later with reference to FIG. 3. After completion of the boot message process, the VMS **102** state can be changed to provisioned—initialized to reflect that the subscriber is provisioned for voicemail service and has completed the first boot access process.

**[0030]** The VMS 102 is accessible via traditional or plain old voicemail (POVM) methods and visual voicemail (VVM) methods described herein. State changes to voicemail messages, whether requested through TUI via POVM methods or directly on the MD via VVM methods, are automatically updated in both the voicemail box and on the subscriber's MD 118. This ensures automatic and full synchronization between the subscriber's MD 118 and the VMS 102 so that the latest voicemail information is stored on the subscriber's MD 118. The subscriber's VMS-hosted voicemail box recognizes and maintains message states for each message such as, but not limited to, an unheard—new state, a skipped state, and a saved—read state. Deleted messages can be deleted from the VMS 102, via the TUI or directly on the MD 118. The message is deleted on both the VMS 102 and the MD 118. However, in an alternative embodiment, deleted messages remain accessible on the MD 118 and/or on the VMS 102 for a specified period of time to allow the message to be recovered in the case of accidental or premature deletion. In other embodiments, the VMS 102 discards all messages after the MD 118 has successfully received and stored the available message content.

**[0031]** The MD 118 voicemail box also recognizes and maintains message states. The MD 118 voicemail box can have message states for each message including, but not limited to, an unheard—new state, a saved—read state, and a deleted state. The MD 118 does not require a skipped state because WM provides an interface that allows a subscriber to access any message regardless of the order in which the message was received and is not subject to restraint of a priority scheme. As mentioned above, the MD 118 voicemail box deleted state can be configured such that the message is available for recovery or merely as an indication that the message has been deleted. Either of these options can be set to be available for a time specified by either the subscriber via a device input or by the voicemail service provider.

**[0032]** Referring now to FIG. 2, an exemplary message flow diagram illustrates a process 200 for handling a password reset request, according to the present disclosure. In the illustrated process 200, messages are sent using a variety of protocols, such as short message peer-to-peer (SMPP), domain name server (DNS) protocol, lightweight directory access protocol (LDAP), unstructured supplementary service data (USSD) protocol, Internet message access protocol version 4 (IMAP4), and hypertext transfer protocol (HTTP), for example. The description provided below assumes an understanding of these protocols and as such further explanation is not provided. The use of alternative protocols or additional protocols to acquire similar results is deemed to be within the scope of the present disclosure. Accordingly, logical variations of the illustrated message flow are contemplated.

**[0033]** In step 202, the mobile device 118 generates a password reset request message and sends the password reset request message to the HLR 112. It should be noted that, in the illustrated embodiment, the password reset request message is a USSD message, however, other message such as, for example, an SMS message are contemplated. The HLR 112 receives the password reset request message and appends the mobile subscriber ISDN number (MSISDN) to the password reset request message, in step 204. In step 206, the HLR 112 sends the password reset request message with the appended MSISDN to the USSD server 106. The USSD server 106 receives the message and submits an LDAP query to the subscriber database 114 to determine the hostname of the

VMS 102 (VM ID) serving the subscriber, in step 208. In step 210, the subscriber database 114 responds with the proper VM ID. In step 212, the USSD server 106 sends a DNS query to the DNS server 116 to obtain the IP address corresponding to the VM ID. The DNS server 116 resolves the IP address from the VM ID and submits a DNS query response to the USSD server 106 with the IP address for the VMS 102, in step 214. In an alternative embodiment, the IP address for the VMS 102 can be obtained by a data table provisioned on another network element, such as the CDS 104, for example.

**[0034]** If no VM ID is found, the subscriber is not provisioned for voicemail service and the USSD server 106 generates a message to this effect which is sent to the SMSC 122, in step 216. The SMSC 122 receives the message and generates a short message (SM) to be sent to the MD 118 to inform the subscriber of the condition, in step 218.

**[0035]** If a VM ID is found, the USSD server 106 sends a password reset request message to the VMS 102, in step 220. In step 222, the VMS 102 receives the password reset request and resets the password to a new default password. The VMS 102 also generates a boot message request and sends the request to the SMSC 122, in step 224. The boot message request instructs the SMSC 122 to prepare a boot SM including the new default password (reset password). In step 226, the SMSC 122 generates a boot message including the default password and sends the boot message to the MD 118, in step 226. An exemplary boot message is described now with reference to FIG. 3.

**[0036]** Referring now to FIG. 3, a message flow diagram of an exemplary process 300 for handling a boot message in response to a password reset request is illustrated, according to the present disclosure. The process 300 assumes that the subscriber has been provisioned for VVM service and has the proper voicemail class of service (CoS) for visual voicemail. When the subscriber is initially provisioned to the VMS 102 with a VVM CoS, the subscriber's account can be enabled for voicemail notification via the CDS 104. The VMS 102 can initiate a notification message to the CDS 104 that is intended for delivery to the subscriber's MD 118 via a short message peer-to-peer (SMPP) message. This enables the subscriber to have confirmation that the VVM service is enabled and to immediately access the service via a VVM application. A visual prompt can be presented to the subscriber as a cue or reminder to setup a voicemail box prior to receipt of incoming voice messages. Conventional voicemail, in contrast, blocks receipt of new messages until the mailbox is set up, or notifies the subscriber of the first new voice messages thereby prompting the subscriber to place a call to retrieve them, but bars access to those messages until the subscriber sets up the mailbox. The visual prompt of the present disclosure advantageously eliminates the annoyance and need to access the VMS 102 via the TUI 109 to setup the voicemail box and ensures the subscriber sets up a voicemail box. The notification message can also be used to reset a voicemail password after a voicemail account is enabled.

**[0037]** The WM service uses several parameters to enable automatic synchronization between the MD 118 and the VMS 102. For example, prior to first boot, the MD 118 does not have the CDS ID, port number, mailbox ID, initial or reset password, and a token value, if applicable. Accordingly, the process 300 described below provides an initial SMPP message including a basic set of parameters for future synchronization sessions including a default password. If a subscriber forgets the password or otherwise needs to have the voicemail

password reset, the subscriber can initiate the process 200 described above with reference to FIG. 2 by selecting a password reset option on the MD 118. In this example, a new boot message can be sent to the MD 118 including a new default password in response to a password reset request from the MD 118.

[0038] The process 300 begins when the VMS 102 generates an SMPP notification message (notificationSM), in step 302. For example, a notification SM message can include, but is not limited to, the hostname and port number for the subscriber's CDS 104, a token identifying the subscriber's VMS 102, the subscriber's voicemail box ID (mailbox ID) embedded with the token to uniquely identify the subscriber for the VMS 102, and a default password. In an alternative embodiment, the notificationSM can include the IP address and port number for the subscriber's CDS 104 and the mailbox ID. The password and token can be added to increase security and preserve data integrity. If a password is used, the password may be unencrypted and the password can be obscured to hide the actual default password digits.

[0039] After the notificationSM message is generated, the VMS 102 can send the message to the CDS 104, in step 304. In step 306, the CDS 104 can receive the notificationSM message and generate a VVM application directed notificationSM message and send the message to the SMSC 122. The SMSC 122 can receive the message and forward the message to the MD 118, in step 308. The application directed short message can be received by the MD 118 and sent directly to the WM application. The WM application can inform the subscriber of the new default password.

[0040] For situations in which VVM is temporarily unavailable for network maintenance, device maintenance, or other unforeseen circumstances, the VVM subscriber can access voicemail messages via the VMS 102 (e.g., via the TUI 109) as a default access method.

[0041] FIG. 4 is a schematic block diagram illustrating an exemplary mobile device 118 for use in accordance with an exemplary embodiment of the present disclosure. Although no connections are shown between the components illustrated and described in FIG. 4, the components can interact with each other to carry out device functions.

[0042] As illustrated, the mobile device 118 can be a multimode handset. FIG. 4 and the following discussion are intended to provide a brief, general description of a suitable environment in which the various aspects of an embodiment of the present disclosure can be implemented. While the description includes a general context of computer-executable instructions, the present disclosure can also be implemented in combination with other program modules and/or as a combination of hardware and software.

[0043] Generally, applications can include routines, program modules, programs, components, data structures, and the like. Applications can be implemented on various system configurations, including single-processor or multiprocessor systems, minicomputers, mainframe computers, personal computers, hand-held computing devices, microprocessor-based, programmable consumer electronics, combinations thereof, and the like.

[0044] The illustrated device 118 includes a display 402 for displaying multimedia such as, for example, text, images, video, telephony functions, such as, visual voicemail data, caller line ID data, setup functions, menus, music metadata, messages, wallpaper, graphics, and the like. The display 402 finds particular application in the present disclosure for dis-

playing visual voicemail data in visual voicemail headers. The visual voicemail headers can include the date, time, CLI data, message length, and message status (i.e., new-unread, read, saved, or deleted).

[0045] The device 118 can include a processor 404 for controlling, and/or processing data. A memory 406 can interface with the processor 404 for the storage of data and/or applications 408. The memory 406 can include a variety of computer readable media, including volatile media, non-volatile media, removable media, and non-removable media. Computer-readable media can include device storage media and communication media. Storage media can include volatile and/or non-volatile, removable and/or non-removable media such as, for example, RAM, ROM, EEPROM, flash memory or other memory technology, CD ROM, DVD, or other optical disk storage, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium that can be used to store the desired information and that can be accessed by the device 118.

[0046] The memory 406 can be configured to store one or more applications 408. The applications 408 can include a user interface (UI) application 410. The UI application 410 can interface with a client 412 (e.g., an operating system) to facilitate user interaction with device functionality and data, for example, managing voicemails in a visual voicemail application, answering/initiating calls, entering/deleting data, configuring settings, address book manipulation, multimode interaction, and the like. The applications 408 can include other applications 414 such as, for example, visual voicemail software, add-ons, plug-ins, voice recognition software, call voice processing, voice recording, messaging, e-mail processing, video processing, image processing, music play, combinations thereof, and the like, as well as subsystems and/or components. The applications 408 can be stored in the memory 406 and/or in a firmware 416, and can be executed by the processor 404. The firmware 416 can also store code for execution during initialization of the device 118.

[0047] A communications component 418 can interface with the processor 404 to facilitate wired/wireless communications with external systems including, for example, cellular networks, VoIP networks, LAN, WAN, MAN, PAN, that can be implemented using WiFi, WiMax, combinations and/or improvements thereof, and the like. The communications component 418 can also include a multimode communications subsystem for providing cellular communications via different cellular technologies. For example, a first cellular transceiver 420 can operate in one mode, for example, GSM, and an Nth transceiver 422 can operate in a different mode, for example WiFi. While only two transceivers 420, 422 are illustrated, it should be appreciated that a plurality of transceivers can be included. The communications component 418 can also include a transceiver 424 for unlicensed RF communications using technology such as, for example, WiFi, WiMAX, NFC, other RF and the like. The transceiver 424 can also be configured for line-of-sight technologies, such as, for example, infrared and IRDA. Although a single transceiver 424 is illustrated multiple transceivers for unlicensed RF and line-of-sight technologies are contemplated.

[0048] The communications component 418 can also facilitate communications reception from terrestrial radio networks, digital satellite radio networks, Internet-based radio services networks, combinations thereof, and the like. The communications component 418 can process data from a

network, such as, for example, the Internet, a corporate intranet, a home broadband network, and the like, via an ISP, DSL provider, or other broadband service provider.

**[0049]** An input/output (I/O) interface **426** can be provided for input/output of data and/or signals. The I/O interface **426** can be a hardware connection, such as, for example, a USB, PS2, IEEE 1394, serial, parallel, IEEE 802.3 (e.g., Ethernet—RJ45, RJ48), traditional telephone jack (e.g., RJ11, RJ14, RJ25) and the like, and can accept other I/O devices, such as, for example, a keyboard, keypad, mouse, interface tether, stylus pen, printer, plotter, jump/thumb drive, touch screen, touch pad, trackball, joy stick, controller, monitor, display, LCD, combinations thereof, and the like.

**[0050]** Audio capabilities can be provided by an audio I/O component **428** that can include a speaker (not shown) for the output of audio signals and a microphone (not shown) to collect audio signals.

**[0051]** The device **118** can include a slot interface **430** for accommodating a subscriber identity system **432**, such as, for example, a SIM or universal SIM (USIM). The subscriber identity system **432** instead can be manufactured into the device **118**, thereby obviating the need for a slot interface **430**.

**[0052]** The device **118** can include an image capture and processing system **434**. Photos and/or videos can be obtained via an associated image capture subsystem of the image system **434**, for example, a camera. The device **118** can also include a video systems component **436** for processing, recording, and/or transmitting video content.

**[0053]** A location component **438** can be included to send and/or receive signals, such as, for example, GPS data, assisted GPS data, triangulation data, combinations thereof, and the like. The device **118** can use the received data to identify its location or can transmit data used by other devices to determine the device **118** location.

**[0054]** The device **118** can include a power source **440** such as batteries and/or other power subsystem (AC or DC). The power source **440** can be single-use, continuous, or rechargeable. In the case of the latter, the power source **440** can interface with an external power system or charging equipment via a power I/O component **442**.

**[0055]** Referring now to FIG. 5, an exemplary graphical user interface (GUI) screen **500** for accessing phone features including a reset voicemail feature is illustrated, according to the present disclosure. The illustrated GUI screen **500** includes a visual voicemail toggle option **502**, a change voicemail greeting option **504**, a change voicemail password option **506**, and a reset voicemail password option **508**. The visual voicemail toggle option **502** allows a user to turn WM on and off. For example, a user may desire to turn VVM off when roaming internationally due to the high costs associated with international data roaming. The change voicemail greeting option **504** can allow the user to change a voicemail greeting on the MD **118**. The change voicemail password option **506** can allow the user to change the voicemail password associated with their VVM service on the MD **118**. The reset voicemail password option **508** can allow the user to reset the voicemail password to a default password, for example, as described above with reference to FIGS. 2 and 3.

**[0056]** The illustrated GUI screen **500** also includes a sort order option **510** whereby the user can select the order by which contacts are sorted, and a display order option **512** whereby the user can select the order by which contacts are displayed. The illustrated GUI screen **500** can further include a call forwarding option **514** whereby the user can select a call

forwarding number or numbers, a call waiting option **516** whereby the user can enable/disable a call waiting feature, a “show my caller ID” option **518** whereby the user can enable/disable a caller ID feature, and a TTY option **520** whereby the user can enable/disable a TTY feature.

**[0057]** In various embodiments of the present disclosure a user can be authenticated to the VMS **102** via a security mechanism such as, but not limited to, voice recognition, face recognition, personal identification number (PIN), auxiliary password, authentication picture, security question, any combination thereof, and the like. The security mechanism can be included in the password reset request message (best shown in FIG. 2). Alternatively, the security mechanism can be requested by the VMS **102**.

**[0058]** The law does not require and it is economically prohibitive to illustrate and teach every possible embodiment of the present claims. Hence, the above-described embodiments are merely exemplary illustrations of implementations set forth for a clear understanding of the principles of the disclosure. Variations, modifications, and combinations may be made to the above-described embodiments without departing from the scope of the claims. All such variations, modifications, and combinations are included herein by the scope of this disclosure and the following claims.

What is claimed is:

1. A method for providing a voicemail password reset feature, the method comprising:
  - receiving a password reset request message (**220**) from a mobile device (**118**) at a voicemail system (**102**);
  - resetting a current password (**222**) to a default password at the voicemail system (**102**);
  - sending a response message request (**224**) to a short message service center (**122**), the response message request comprising a request to generate a response message comprising the default password;
  - generating the response message at the short message service center (**122**); and
  - sending the response message (**226**) to the mobile device (**118**), the response message comprising the default password.
2. The method of claim 1 further comprising generating the password reset request message at the mobile device (**118**) in response to an input received on the mobile device (**118**).
3. The method of claim 1, wherein receiving the password reset request message (**220**) comprises receiving the password reset request message as an unstructured supplementary service data (USSD) message.
4. The method of claim 1, wherein receiving the password reset request message (**220**) comprises receiving the password reset request message as a short message service (SMS) message.
5. The method of claim 1, wherein sending the response message (**226**) comprises receiving the response message as an unstructured supplementary service data (USSD) message.
6. The method of claim 1, wherein sending the response message (**226**) comprises receiving the response message as a short message service (SMS) message.
7. The method of claim 1, wherein the password reset request message (**220**) comprises a security mechanism.

- 8. The method of claim 1 further comprising:  
sending a security mechanism request message to the mobile device (118), the security mechanism request message comprising a request for information relevant to a security mechanism.
- 9. A system for providing a voicemail password reset feature, the system comprising:  
a mobile device (118) configured to generate a password reset request message (202) in response to an input and to send the password reset request to a voicemail server (102);  
the voicemail server (102) configured to receive the password reset request message (220), reset a current password to a default password (222), and send a response message request (224) to a short message service center (122), the response message request comprising a request to generate a response message comprising the default password; and  
the short message service center (122) configured to generate the response message and send the response message (226) comprising the default password to the mobile device (118).
- 10. The system of claim 9, wherein the password reset request message (202, 220) is an unstructured supplementary service data (USSD) message.
- 11. The system of claim 9, wherein the password reset request message (202, 220) is a short message service (SMS) message.
- 12. The system of claim 9, wherein the response message (226) is an unstructured supplementary service data (USSD) message.
- 13. The system of claim 9, wherein the response message (226) is a short message service (SMS) message.
- 14. The system of claim 9, wherein the voicemail server (102) is further configured to send a security mechanism request message to the mobile device (118), the security mechanism request message comprising a request for information relevant to a security mechanism.
- 15. The system of claim 9, wherein the password reset request message (220) comprises a security mechanism.

- 16. A computer-readable medium on a mobile device comprising computer-executable instructions that, when executed, perform the steps of:  
generating a password reset request message (202, 220) upon receiving a selection of an option to reset a voicemail password, the password reset request being based upon the selection and the password reset request comprising a request to reset a password from a current password to a default password;  
sending the password reset request message (202, 220) to a voicemail system (102); and  
receiving a response message (226) comprising the default password.
- 17. The computer-readable medium of claim 16, wherein generating the password reset request message (202, 220) comprises generating the password reset request message as an unstructured supplementary service data (USSD) message.
- 18. The computer-readable medium of claim 16, wherein generating the password reset request message (202, 220) comprises generating the password reset request message as a short message service (SMS) message.
- 19. The computer-readable medium of claim 16, wherein receiving the response message (226) comprises receiving the response message as an unstructured supplementary service data (USSD) message.
- 20. The computer-readable medium of claim 16, wherein receiving the response message (226) comprises receiving the response message as a short message service (SMS) message.
- 21. The computer-readable medium of claim 16, wherein the password reset request message (220) comprises a security mechanism.
- 22. The computer-readable of claim 1 further comprising:  
receiving a security mechanism request message from the voicemail system (102), the security mechanism request message comprising a request for information relevant to a security mechanism; and  
sending a security mechanism response message to the voicemail system (102), the security mechanism response message comprising the security mechanism information.

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