IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	
Darrell Diem	Art Unit: 2689
Application No: 15/200,592	Examiner: Mohamed Barakat
Confirmation No: 1044	
Filed: 07-01-2016	Atty. Docket No: 1114-0003CON
	Customer No: 124657

For: A NOTIFICATION SYSTEM FOR OCCURRENCES OF
GROUP EVENTS BASED ON ZONE AND LOCATION
OF MOBILE DEVICES

PATENT TRADEMARK OFFICE

RESPONSE TO NON-FINAL OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated **October 7, 2016**, please amend the above-identified U.S. patent application as follows:

Claims Amendments are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 12 of this paper.

CLAIMS

1. (Currently Amended) A notification system for sending ~~group~~ notifications upon occurrences of events associated with a plurality of mobile devices <u>of user groups having corresponding group identification codes that identify the user groups, each user group comprising one or more users having a user identification code associated with a corresponding group identification code, the user identification code identifying the user</u> ~~each including a corresponding Bluetooth device~~; wherein said events occur based on mobile device locations relative to zones that are independent of mobile device locations, said system comprising:

   one or more servers configured to:

   ~~define~~ <u>check</u> a first level administrative privilege to control user membership in ~~a~~ <u>the</u> user groups, <u>said user groups being defined by a first administrator having the first level administrative privilege, said first level administrative privilege being used to authorize a user in each user group to be a second administrator of a plurality of second administrators, each second administrator having a corresponding second level administrative privilege associated with a user group</u>;

   ~~define a second level administrative privileges to~~ control conveyance of event information ~~to the user group~~ <u>based on one or more information access codes specified by a second administrator of a user group, said one or more information access codes specifying one or more users in the user group having access to the event information, wherein the</u>

first level administrative privilege is used to administer a first information sharing

environment (ISE) and the second level administrative privilege is used to administer a

corresponding second ISE of a plurality of second ISEs created within the first ISE, said

first and second ISEs comprising a computing network where the conveyance of the event

information from a server to the groups is controlled or configured, wherein each second

ISE is configured to be administered independent of other second ISEs and the first ISE

using the one or more information access codes;

check the first level administrative privileges before ~~adding an~~ authoriz~~ed~~ing a

user to be a second administrator of ~~the~~ a user group;

provide one or more interfaces for setting zones, events and ~~groups~~ notifications

for the user groups based on a corresponding second level administrative privilege

associated with the second administrator;

check ~~a~~ the corresponding second level administrative privilege before providing

one or more interfaces for setting a zone, ~~the~~ an events and ~~the group~~ a notification~~s~~ for the

user group;

receive a request to set the zone for the user group after the user group is defined

by the first administrator;

receive a request to set ~~an~~ the event for the user group after the setting of the

zone;

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receive a request to set ~~a group~~ the notification for the user group, said request identifying a recipient of the ~~group~~ notification <u>according to said one or more information access codes</u>;

determine a mobile device location ~~based on proximity of a Bluetooth device included in a mobile device to a remote device~~;

compare ~~a~~ <u>the</u> zone and the mobile device location to determine whether ~~an~~ <u>the</u> event occurs;

if the event occurs cause ~~a group~~ <u>the</u> notification to be sent to the recipient of the ~~group~~ notification.

2. (Currently Amended) The system claimed in claim 1, wherein said mobile device location corresponds to an indoor location of the mobile device <u>determined using a proximity device included in the mobile device</u>.

3. (Original) The notification system claimed in claim 2, wherein said servers are further configured to determine an outdoor location of the mobile device based on a GPS device included in the mobile device.

4. (Currently Amended) The notification system claimed in claim 1, wherein ~~said group notification has a notification ID~~ <u>the one or more servers are configured to control conveyance of mobile device location information other than event information based on the one or more information access codes specified by the second administrator of the user group, said one or more information access codes specifying one or more users in the user</u>

group having access to the mobile device location information and the event information, wherein a mobile device location information corresponds to a coordinate of a mobile device within a coordinate system corresponding to a map as determined by a location information source associated with the mobile device; and wherein an event information comprises at least one condition that relates a mobile device location information to a zone where the occurrence of the event causes a notification to be sent when a mobile device crosses a boundary associated with the zone, wherein the first administrator defines the corresponding user group independent of a location of a zone.

5. (Currently Amended) The notification system claimed in claim 1 4, wherein ~~said notification ID is associated with a scheduled notification~~ said first level administrative privilege is associated with an event information service provider and said second level administrative privilege is provided by the event information service provider to customers of the event information service provider, said mobile device identification codes being associated with vehicles in a plurality of vehicle groups based on the second level administrative privilege, wherein each vehicle group comprises vehicles used by drivers associated with corresponding mobile object identification codes under the second level administrative privilege, said mobile object identification codes being different from the mobile device identification codes, each mobile object identification code being associated with a mobile object comprising an NFC device, wherein a second event associated with the mobile object that is different from the event is determined based on proximity of the driver to the vehicle as determined using the NFC device.

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