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(54) **Title:** METHOD TO ENABLE A MOBILE COMMUNICATION DEVICE IN PLURALITY OF NETWORKS USING A SHORT RANGE WIRELESS TECHNOLOGY

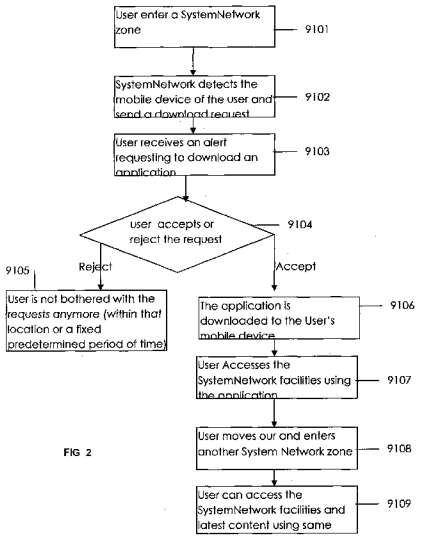

FIG 2

(57) **Abstract:** A method to enable a mobile communication device in plurality of networks using a short range wireless technology, the method comprising the steps of identifying interaction of the application enabled user's device with system network, forwarding a request to download the application with an alert to said user's device, being authorized by the user by accepting the said request, downloading the said application in the user's device, accessing the system network for further processing into the application so downloaded.

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METHOD TO ENABLE A MOBILE COMMUNICATION DEVICE IN PLURALITY OF NETWORKS USING A SHORT RANGE WIRELESS TECHNOLOGY

This invention is a divisional out of the original Patent Application No. 2516/CHE/2007 dated November 4, 2007.

Field of the Invention

The present invention relates to a method that enables a mobile communication device to interact in plurality of networks using a short range wireless technology. More particularly, the present invention relates to a system and method for providing a platform that supports a user's device in a plurality of network as soon as a single program application is copied in the user's device.

Summary of the Invention

A system and method to enable a mobile communication device in plurality of networks using a short range wireless technology are provided.

Briefly, one exemplary embodiment relates to a system that utilises a single common enabling means to support a services offered by different service providers as long as they are utilizing the central server as connecting means of the SmartIb of the system to as a facilitator.

Another exemplary embodiment relates to a method to enable a mobile communication device in plurality of networks using a short range wireless technology, the method comprising the steps of identifying interaction of the application enabled user's device with system network, forwarding a request to

download the application with an alert to said user's device, being authorized by the user by accepting the said request, downloading the said application in the user's device, accessing the system network for further processing into the application so downloaded.

The object of the present invention is to provide a system and method for providing a platform that supports a mobile communication device as soon a single program application is copied to a program.

Another object of the present invention is to provide a system and method that allows a mobile communication device to interact and connect with all other networks using same wireless technology in the application has been downloaded.

Yet another object of the present invention is to provide a system and method that allows the user of the mobile communication device to update the application program with a newer version

Yet another object of the present invention is to provide a system and method that allows an application program to be downloaded/delivered into the mobile communication device of a user only after authorization of the user.

Yet another object of the present invention is to provide a system and method that detects all mobile communication device within the vicinity (reach) of the system.

Yet another object of the present invention is to provide a system and method that send the application program specific to the configuration of the mobile communication device.

Brief description of the accompanying drawings:

Non-limiting and non-exhaustive embodiments of the present invention are described with reference of the accompanying drawings, like reference numerals refer to like elements throughout the various figures unless otherwise specified and wherein:

FIG. 90 illustrates a system diagram of an environment in which the present invention may be practiced according to an embodiment of the present invention.

FIG. 91 illustrates a logical flow diagram showing a method to enable a mobile communication device in plurality of networks using a short range wireless technology according to preferred embodiments of the present invention.

Detailed description of the Invention

A system and method to enable a mobile communication device in plurality of networks using a short range wireless technology are provided.

In the following description for purposes of explanation, specific details are set forth in order to provide a thorough understanding of the present invention. It will be evident, however, to one skilled in the art that the present invention may be practiced without these specific details. In other instances, well known methods, procedures, components and circuits have not been described in detail so as not to obscure the present invention.

The present invention now will be described more fully hereinafter with reference to the accompanying drawings, which

form a part hereof, and which show, by way of illustration, specific exemplary preferred embodiments by which the invention may be practiced. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. The following detailed description is, therefore, not to be taken in a limiting sense.

Referring to FIG. 90 it illustrates a system diagram of an environment in which the present invention may be practiced.

FIG. 91 illustrates a method to enable a mobile communication device in plurality of networks using a short range wireless technology, the method comprising the steps of identifying 9101, 9102 interaction of the application enabled user's device with system network, forwarding a request to download the application with an alert 9103 to said user's device, being authorized 9104 by the user by accepting the said request, downloading 9106 the said application in the user's device, accessing 9107 the system network for further processing into the application so downloaded.

The present method thus facilitates an environment in which the user's device once interacted with the system's network, the device is promptly detected and forwarded to with a request to download the application program. The application program is downloaded in the user's device after receiving the authorisation to download such program. The system registers the user's device with the system server and enables the user's device to further browse and access the application

program. Thus, the application program is copied in the user's device.

The required application can be downloaded on to the mobile handheld electronic device on alerting while interacting with the system's network.

The method in a preferred aspect also provides the use of the copied application program in another network with similar browsing features. If the system gets a new version of the application program, the user's device is promptly updated with the new version and allowed to download the updated version in the user's device according to the method described herein above. Thus a user's device having the copied application program is allowed to interact and connect with all other networks using same short range wireless technology.

In a preferred embodiment, user's device is a wireless hand-held electronic device such as a mobile communication device having means to accurately determine its location. Said mobile communication device being able to connect and receive and transmit information over a short range communication network such as via Bluetooth and the like. Said mobile communication device may also have encoded instructions to enable a central server connected to a service location to detect and authenticate the said phone. The central server can have pre-stored information such as user authentication details, user preferences, transaction history of the user and so on.

The central server may use this information along with the location and details regarding the user device to aggregate relevant location specific information from a plurality of sources to be delivered to the user over a short range communication network such as via Bluetooth and the like. The

retrieval and delivery of location specific information is operator independent. Further, the access to information is realized over an inexpensive communication such as via Bluetooth and the like. The user device may be encoded with selectable menu options for authentication of the user and subsequently facilitate explicit information retrieval by a user.

Although, the invention has been described with reference to specific examples, it would be appreciated by those skilled in the art that the invention may be embodied in many forms without departing from the broader spirit and scope of the invention as set forth in the invention. Preferred embodiments of this invention have been described herein, including the best mode known to the inventor for carrying out the invention. Variations of those preferred embodiments may become apparent to those of ordinary skill in the art upon reading the foregoing description.

Accordingly, this invention includes all modifications and equivalents of the subject matter recited in the claims appended hereto as permitted by applicable law. Moreover, any combination of the above-described elements in all possible variations thereof is encompassed by the invention unless otherwise indicated herein or otherwise clearly contradicted by context. Accordingly, the specification and drawings are to be regarded in an illustrative rather than a restrictive sense without departing from the spirit and scope of the invention, the invention resides in the claims hereinafter appended.

I/WE CLAIM:

1. A method to enable a mobile communication device in plurality of networks using a short range wireless technology, the method comprising the steps of:

identifying interaction of the application enabled user's device with system network;

forwarding a request to download the application with an alert to said user's device;

being authorized by the user by accepting the said request;

downloading the said application in the user's device;

accessing the system network for further processing into the application so downloaded.

2. The method as claimed in claim 1, further comprising the steps of:

interacting with another system network zone;

authorizing the user's device;

accessing the system network for the copied enabled application in the similar environment.

3. The method as claimed in any preceding claims, wherein the system network enables a user's device to interact and connect with all other networks using same short range wireless communication technology if the application interface downloaded in the user's device.

4. The method as claimed in any preceding claims, wherein the system network allows the user's device to update the application interface if a new version required.

5. The method as claimed in any preceding claims, wherein the system network forward the application program specific to the configuration of the user's device.

6. A system to enable a mobile communication device in plurality of networks using a short range wireless technology, the system comprising:

interactivity means for identifying interaction of the application enabled user's device with system network;

forwarding means for forwarding a request to download the application with an alert to said user's device;

accessing means to enable user to access the system network for further processing into the application so downloaded.

2. The system as claimed in claim 6, further comprising :

Identifying means to identify another system network zone;

interactivity means for interacting with another system network zone;

authorizing means for authorizing the user's device;

3. The system as claimed in any preceding claims, wherein the system network enables a user's device to interact and connect with all other networks using same short range wireless communication technology if the application interface downloaded in the user's device.

4. The system as claimed in any preceding claims, wherein the system network allows the user's device to update the application interface if a new version required.

5. The system as claimed in any preceding claims, wherein the system network forward the application program specific to the configuration of the user's device.

6. The system substantially as hereinbefore described with reference to and/or as shown in the accompanying drawings.

7. The system substantially as hereinbefore described with reference to and/or as shown in the accompanying drawings.

8. A computer program product comprising:

computer readable program code means for identifying interaction of the application enabled user's device with system network;
computer readable program code means for forwarding a request to download the application with an alert to said user's device;
computer readable program code means for being authorized by the user by accepting the said request;
computer readable program code means for downloading the said application in the user's device;
computer readable program code means for accessing the system network for further processing into the application so downloaded.

9. A computer program product further comprising:

computer readable program code means for interacting with another system network zone;
computer readable program code means for authorizing the user's device;

computer readable program code means for accessing the system network for the copied enabled application in the similar environment.

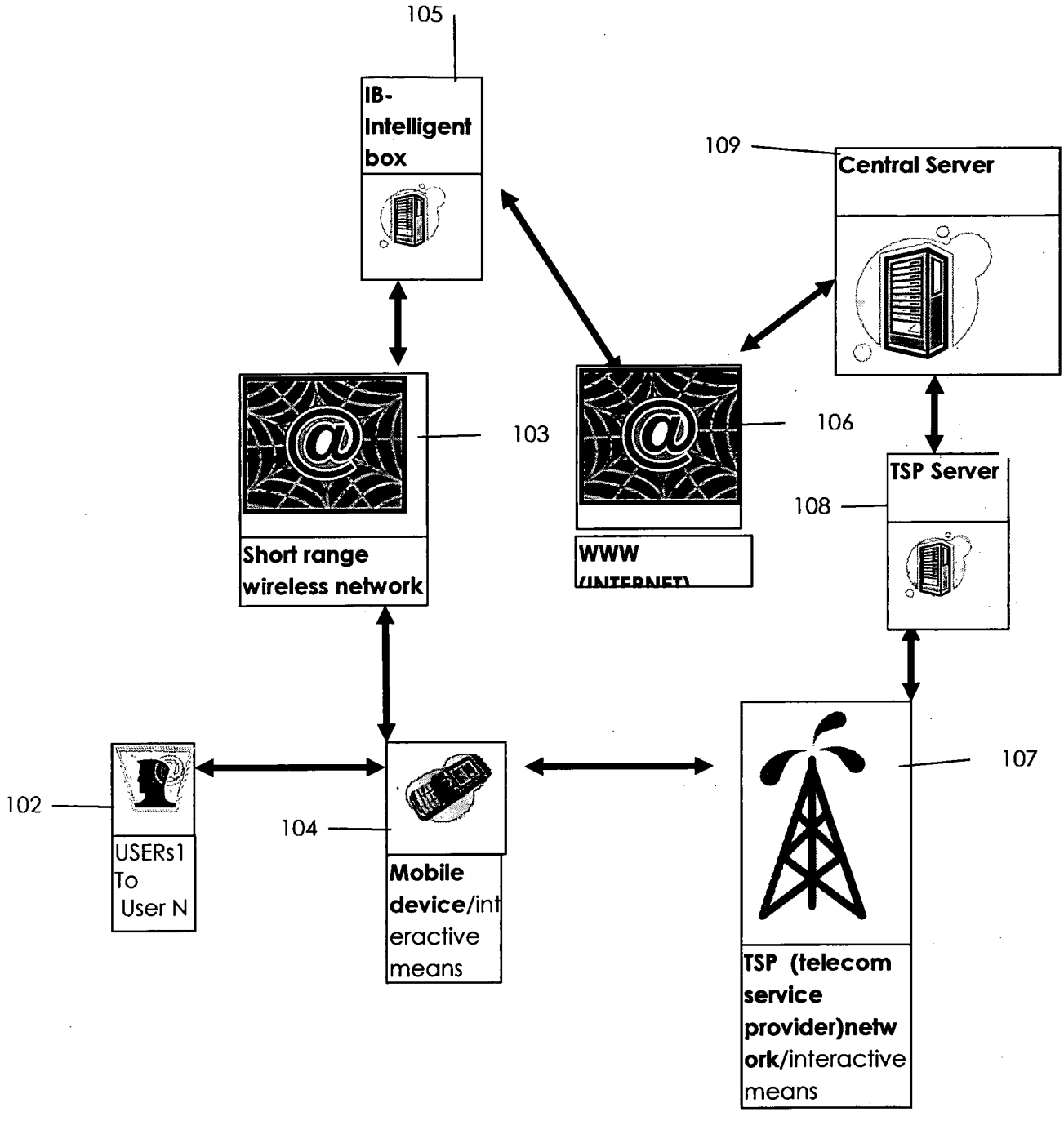
105
IB-
Intelligent
box
109
Central Server
103
106
Short range
wireless network
WWW
(INTERNET)
TSP Server
108
102
USERs1
To
User N
104
Mobile
device/int
eractive
means
107
TSP (telecom
service
provider)netw
ork/interactive
means

FIG 1

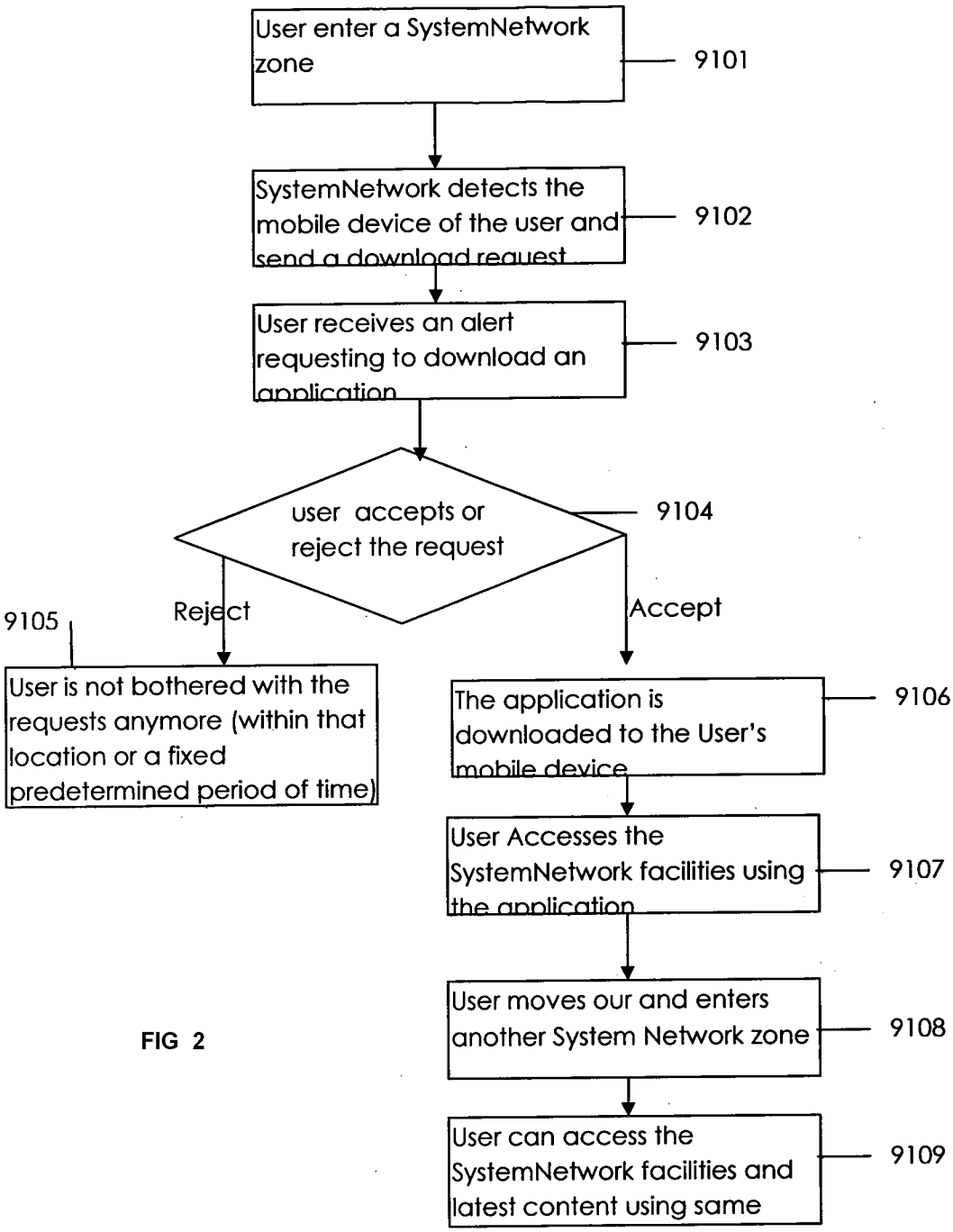
User enter a SystemNetwork zone
9101
SystemNetwork detects the mobile device of the user and send a download request
9102
User receives an alert requesting to download an application
9103
user accepts or reject the request
9104
Reject
Accept
9105
User is not bothered with the requests anymore (within that location or a fixed predetermined period of time)
The application is downloaded to the User's mobile device
9106
User Accesses the SystemNetwork facilities using the application
9107
User moves our and enters another System Network zone
9108
User can access the SystemNetwork facilities and latest content using same
9109

FIG 2