TECHREPORT

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CONTENTS

01 Method and Apparatus for sharing Connectivity Settings via Social Networks

Abstract

Nokia patented a method for enabling the sharing of one or more connectivity parameters with one or more friends. The method includes detecting connection parameters and the associated data of an access point. The connection parameters and associated data are included within a user profile. This profile is associated with a social network service which is able to identify relationships among the user's friends. The connection parameters and associated data can be provided to a device of the user or to that of the friends.

FIG. 5.
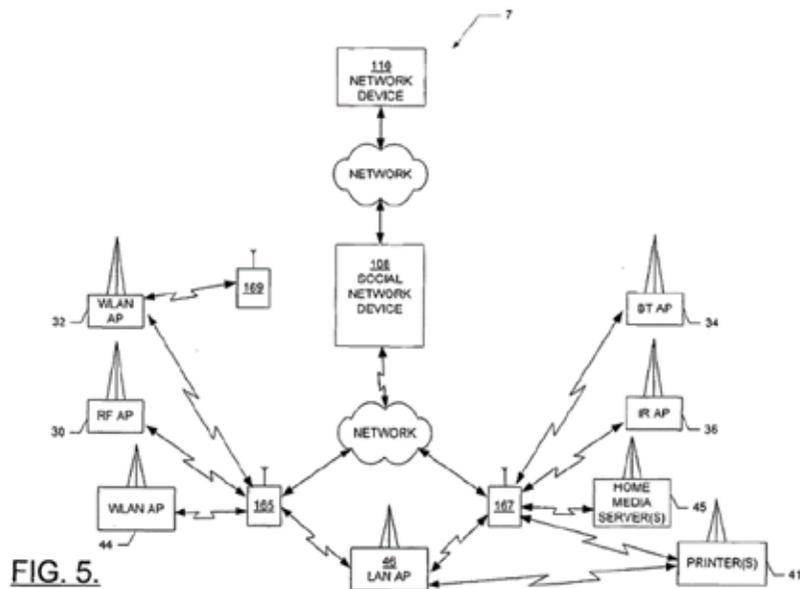
02 Analysing Client Data Stores

Abstract

Mimecast's invention includes a data storage system that is associated with a provider entity. Data is stored on behalf of a client entity and is accessible from the data storage system by the client entity. A data interface enables access to the data by the provider entity of the data storage system. The invention further includes an analysis engine that is maintained by the provider entity that accesses the data, using the data interface, at times determined by the analysis engine. The data is analysed and results of the analysis are generated for use by the client entity.
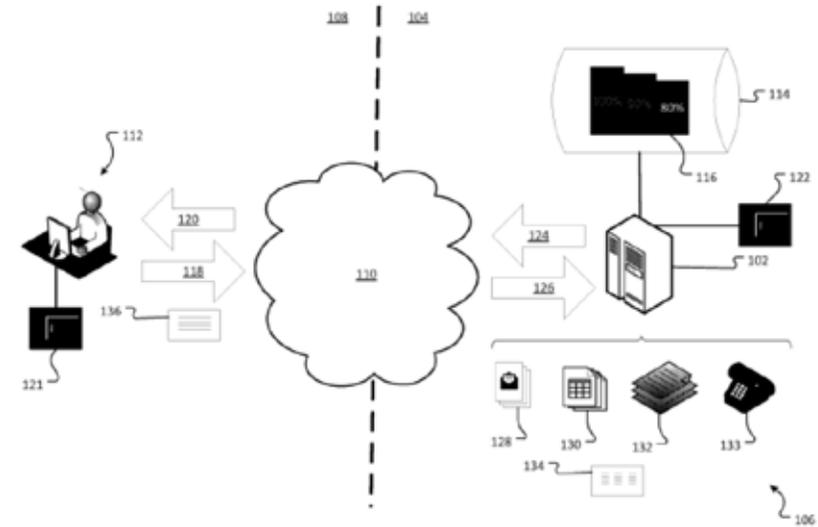
03 Mutually Authenticated Communication

Patent No: 2014/06496
Applicant: Entersekt (Pty) Ltd

Abstract

Entersekt discloses a method and system for securing an electronic communications session between a mobile device and a network server. The method includes requesting a unique session identifier from an authentication server by using the mobile device. The authentication server in turn requests the session identifier from the network server on behalf of the mobile device and, upon receipt thereof, communicates it to the mobile device. This is performed over a secure communication channel between the mobile device and the authentication server that is established using a unique digital certificate on the mobile device. This unique digital certificate would have been previously issued by a trusted certification authority. The session identifier is useable by the mobile device and by the network server to secure, mutually validate and authenticate the electronic communication session between them. This is conducted by means of a conventional electronic communications protocol.
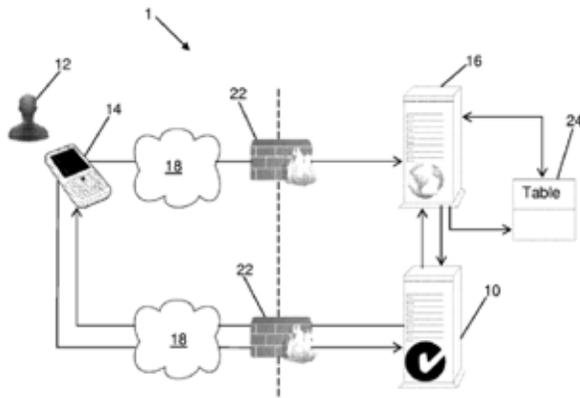
04 Method and System for Establishing a Secure Communication Channel

Patent No: 2015/03863
Applicant: Entersekt (Pty) Ltd

Abstract

In another Entersekt patent, a method and system for establishing a secure communication channel is disclosed. A remotely accessible server updates a used counter value to yield an updated counter value. The used counter value was used to generate a previously used symmetric key for encrypting communications between the server and a mobile handset. The updated counter value is used to generate a symmetric key, which is included in a key transfer message. The key transfer message is asymmetrically encrypted using a handset public key and transmitted to the handset. The handset is capable of using a handset private key to decrypt the key transfer message and obtain the symmetric key. Further data received from the handset is decrypted asymmetrically using a server private key and symmetrically using the symmetric key. Further data communicated to the handset is encrypted symmetrically using the symmetric key and asymmetrically using the handset public key.
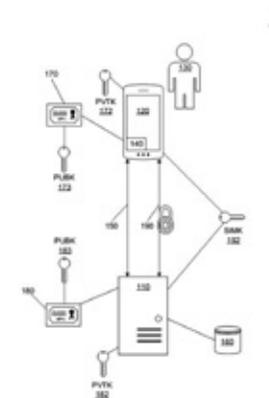
05

A Method, Apparatus, Computer Program and User Interface

Patent No: 2014/05239
Applicant: Nokia Technologies OY

Abstract

In this disclosure, Nokia describes a method, apparatus, computer program and user interface. The method comprises of using a first application to cause content which is associated with a location to be displayed on a display. In response to the input from the user, the scale of the content is determined. If the scale of the content is above a threshold, a second, different application is accessed to cause a graphical representation to be displayed that is indicative of the location associated with the content. If, however, the scale of the content is below a threshold, the use of the first application is continued to change the scale of the content displayed on the display.

FIG. 4A

FIG. 4B

FIG. 4C
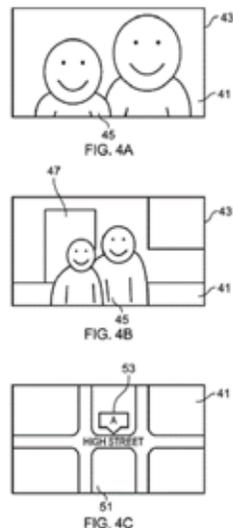
06

Mobile Wallet System

Patent No: 2014/09191
Applicant: Barclays Bank PLC

Abstract

Barclays patented a mobile wallet system for providing contextual services to a consumer. It comprises a mobile wallet on a mobile device that is associated with the consumer, a payment platform for processing payment transactions by the mobile wallet, a digital content service platform for providing digital content services to the mobile wallet, and an analytics platform for controlling the digital content services provided to the mobile wallet. This digital content is based on the collected consumer data.

FIG. 1
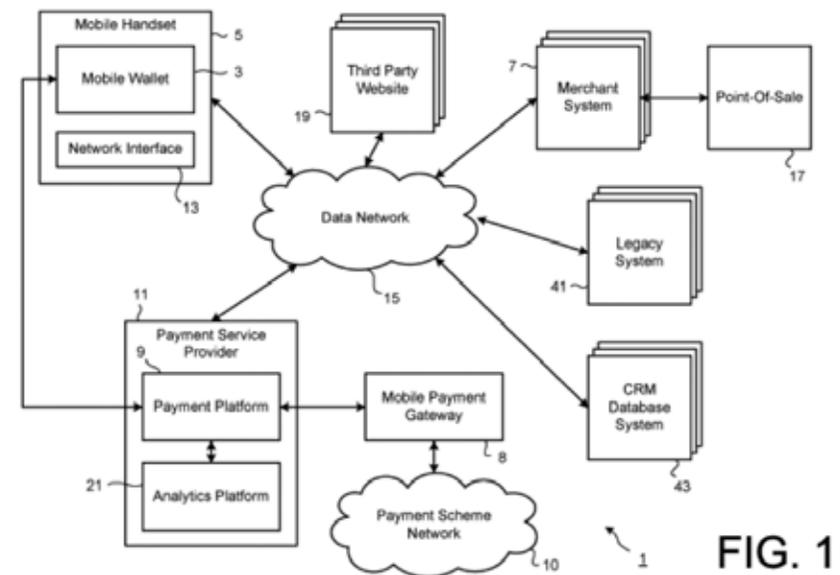
07 System and Method for Generating a Random Number

Patent No: 2015/04503
Applicant: Entersekt (Pty) Ltd

Abstract

Entersekt dominates this edition as they furthermore disclosed a system and method for generating a random number in this patent. The method is performed on a mobile device and includes the steps of establishing a secure, independent connection with a remote server, of transmitting a request for a random seed value from the server, of receiving a random seed value from the server generated by a dedicated random seed device, and of generating a random number using the random seed as input to a random number generating algorithm. The random number may in turn be used to generate an asymmetric key pair, including a public key and a private key. Then this may be used to encrypt communication. The public key may be communicated to a remote server, which may then provide the mobile device with a digital certificate to use when digitally signing messages.
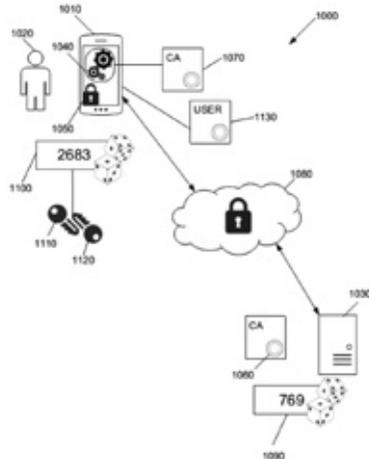
08 Video Coding with Subsets of a Reference Picture Set

Patent No: 2014/02898
Applicant: Qualcomm Incorporated

Abstract

In this disclosure, Qualcomm describes techniques related to deriving a reference picture set. This reference picture set may identify reference pictures that can potentially be used to inter-predict a current picture and picture following the current picture in decoding order. In some examples, deriving the reference picture set may include constructing multiple reference picture subsets that together form the reference picture set.
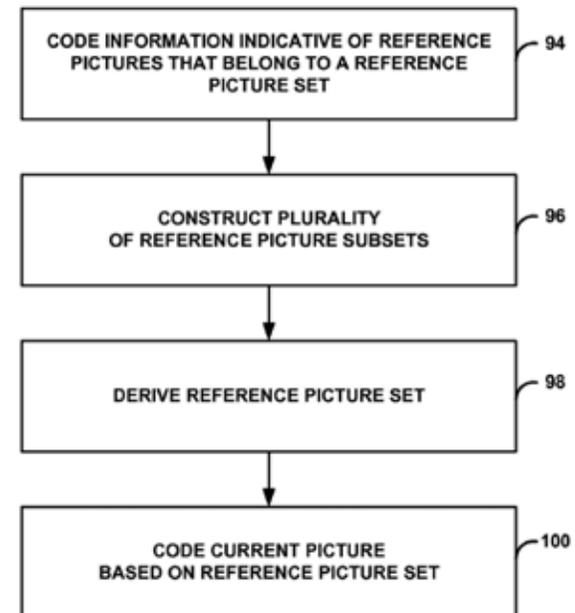
Meet Our Team

Our high tech team is made up of patent attorneys, foreign counsel, candidate patent attorneys and technical experts. The team has extensive technical expertise in electrical and electronic engineering, computer science, software and also industrial, mechanical and civil engineering.

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