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(54) Titre : SYSTEME ET PROCEDE POUR PRESENTER DES OFFRES DE COMMERCIALISATION CIBLEES AUX CONSOMMATEURS VIA UN PORTAL EN LIGNE
 (54) Title: SYSTEM AND METHODS FOR DELIVERING TARGETED MARKETING OFFERS TO CONSUMERS VIA AN ONLINE PORTAL

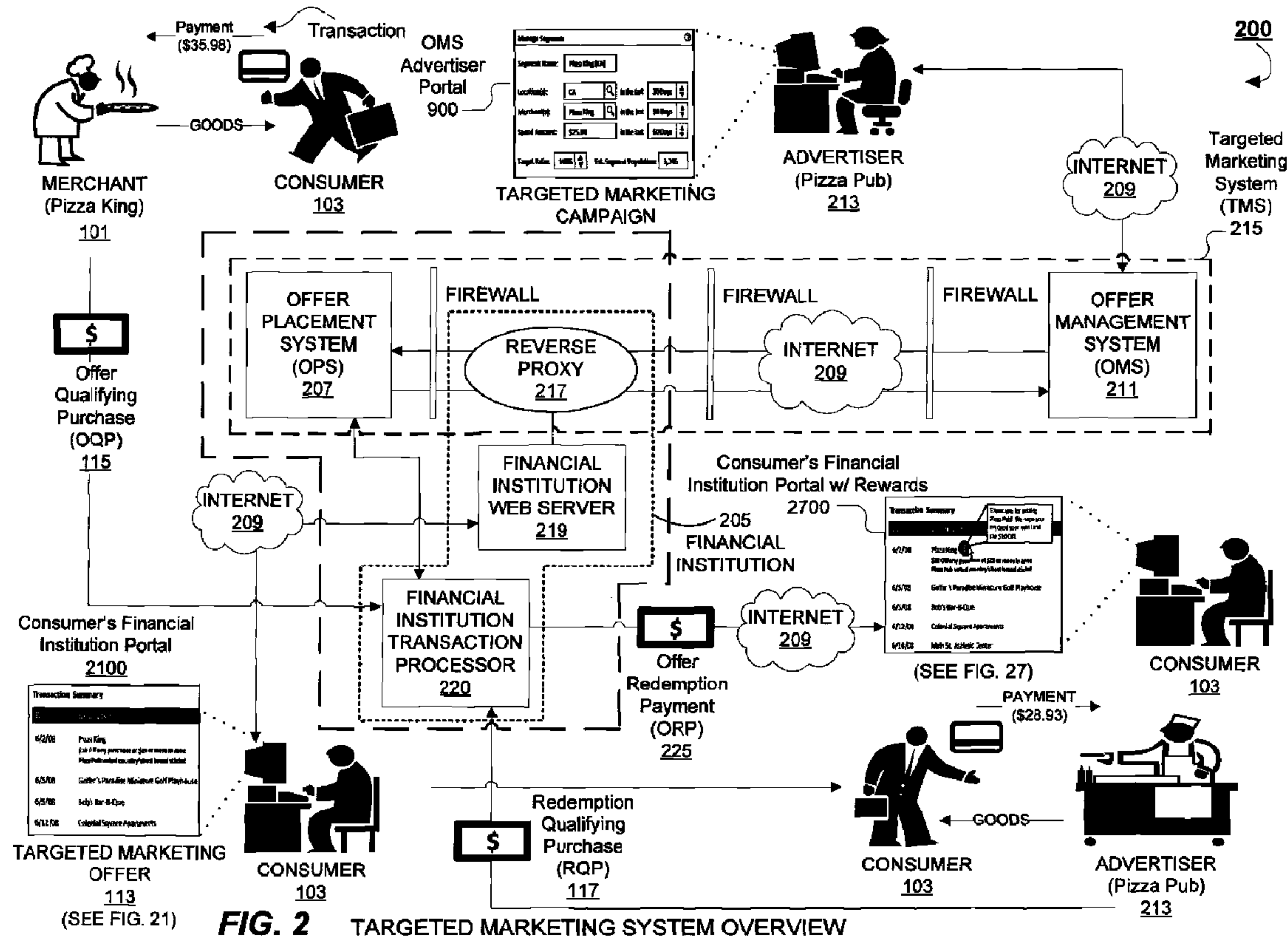


FIG. 2 TARGETED MARKETING SYSTEM OVERVIEW

(57) Abrégé/Abstract:
 A system and methods for delivering targeted marketing offers to consumers during a session with an online (web-based) Internet portal, particularly suitable for online banking portals of financial institutions. An offer management system receives information

(57) **Abrégé(suite)/Abstract(continued):**

corresponding to an advertising campaign of an advertiser corresponding to terms of a targeted marketing offer to be provided to a consumer accessing the online portal, and provides advertising campaign data corresponding to the targeted marketing offer and to an offer-triggering event to an offer placement system. An offer placement system receives the advertising campaign data, determines the occurrence of the offer-triggering event by a consumer during an online session with the online portal, and delivers information corresponding to the targeted marketing offer to the consumer. In response to the offer-triggering event, such as display of a list of transactions, the predetermined targeted marketing offer is delivered to the consumer during the online session.

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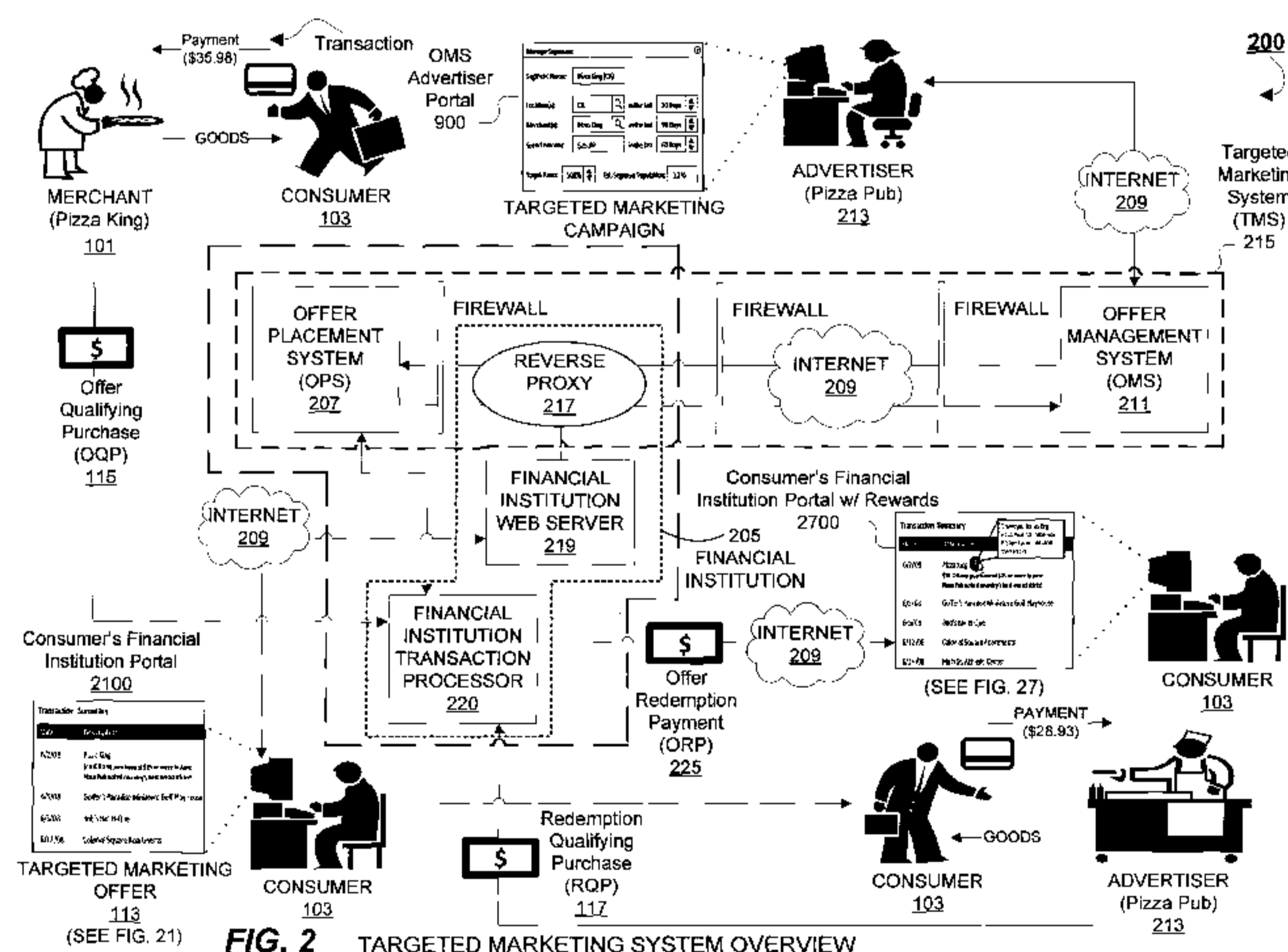
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(54) Title: SYSTEM AND METHODS FOR DELIVERING TARGETED MARKETING OFFERS TO CONSUMERS VIA AN ONLINE PORTAL



(57) Abstract: A system and methods for delivering targeted marketing offers to consumers during a session with an online (web-based) Internet portal, particularly suitable for online banking portals of financial institutions. An offer management system receives information corresponding to an advertising campaign of an advertiser corresponding to terms of a targeted marketing offer to be provided to a consumer accessing the online portal, and provides advertising campaign data corresponding to the targeted marketing offer and to an offer-triggering event to an offer placement system. An offer placement system receives the advertising campaign data, determines the occurrence of the offer-triggering event by a consumer during an online session with the online portal, and delivers information corresponding to the targeted marketing offer to the consumer. In response to the offer-triggering event, such as display of a list of transactions, the predetermined targeted marketing offer is delivered to the consumer during the online session.

**SYSTEM AND METHODS FOR DELIVERING TARGETED
MARKETING OFFERS TO CONSUMERS VIA AN ONLINE
PORTAL**

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CROSS REFERENCE TO RELATED APPLICATION

This application claims benefit under 35 U.S.C. § 119(e) of U.S. Provisional Patent Application No. 61/108,332, filed October 24, 2008, and entitled “System and Methods for Providing Targeted Marketing Offers to Consumers Via an Online Banking Portal”, which is incorporated herein by reference as if set forth herein in its entirety.

This application is related to and incorporates by reference herein the following U.S. and international (PCT) patent applications:

U.S. Patent Application No. _____, entitled “**System and Methods for Delivering Targeted Marketing Offers to Consumers Via an Online Portal**”, filed on June __, 2009;

U.S. Patent Application No. _____, entitled “**Offer Placement System and Methods for Targeted Marketing Offer Delivery System**”, filed on June __, 2009;

U.S. Patent Application No. _____, entitled “**Offer Management System and Methods for Targeted Marketing Offer Delivery System**”, filed on June __, 2009;

U.S. Patent Application No. _____, entitled “**System and Methods for Offer Realization and Redemption in a Targeted Marketing Offer Delivery System**”, filed on June __, 2009; and

U.S. Patent Application No. _____, entitled “**System and Methods for Merging or Injecting Targeting Marketing Offers with a Transaction Display of an Online Portal**”, filed on June __, 2009, the disclosures of which applications are incorporated by reference as if the same were fully set forth herein.

30

TECHNICAL FIELD

The present systems and methods relate generally to electronic, computer-based targeted marketing systems, and more particularly to systems and methods for providing targeting marketing offers to consumers using financial services type online systems such as online banking portals.

BACKGROUND

Online financial services provided by financial institutions such as banks, credit unions, savings & loans, and brokerage institutions are becoming increasingly popular among consumers as a way to effectively manage their finances. Many people use such services to monitor their bank accounts and cash holdings, securities accounts, savings accounts, and so forth, and utilize financial-institution-provided online bill payment or check writing services. Generally, these online financial services are Internet-accessible via financial institution websites or web pages, including as viewed via mobile devices. As referred to herein, such online financial services type online systems will be referred to as “financial institution portals” or “banking portals,” although other terms may apply to such services by different types of institutions.

In a traditional financial institution portal, users are typically provided with a listing of their accounts, and a further sub-listing of their recent transactions associated with those accounts. Each transaction will often include the date of the purchase or transaction, the amount of the transaction, the form in which the transaction occurred (i.e., check, credit card, etc.), and the retailer, service provider, or other establishment with which the transaction occurred. Based on the details available with each transaction, as well as the ease of use of most online banking portals, many consumers rely heavily on these portals to manage their finances and investments, stay on top of budgets, pay bills, and track their purchases. Additionally, with the advent and increased use of mobile devices (e.g., cell phones, smart phones, PDAs, etc.), consumers have constant access to their online services and accounts.

In order to provide detailed and up-to-date information regarding transactions, purchases, and accounts to portal users, banks and other financial service providers must

keep thorough records of those transactions, and employ highly-sophisticated operational systems to maintain and organize such information. Accordingly, banking systems can provide a rich intelligence about the purchasing habits and propensities of consumers. It would be highly beneficial to most advertisers to have access to such detailed purchase
5 information; however, due to strict privacy laws and regulations that limit how financial institutions can share consumer data, advertisers have never been able to access this valuable information.

Certain types of targeted marketing systems are known to be in use. The term “targeted marketing” generally refers to systems that enable the identification of
10 particular classes or segments of consumers and the delivery by advertisers of specialized targeted marketing information and/or offers to such consumers. Consumers are often segmented into classes and subclasses based on age, gender, geography, socio-economic status, types of purchases, and other indicia. The specialized targeted marketing information provided to these identified classes of consumers can include special
15 discounts on product purchases, coupons, rewards program points, or other similar incentives as regards specific products or services provided by advertisers. Generally, the more information known by an advertiser, the more targeted, specialized and valuable advertisements become.

Traditionally, marketers relied on general information such as their own historical
20 sales data or common geographic data in order to target advertisements (in the form of mailers, television advertisements, etc.) to customers. While this type of targeted marketing does provide some benefit over undirected, mass marketing, it is not as specialized or precise as most advertisers would prefer. Even with the advent and widespread use of the Internet (and Internet advertisements), targeting marketing still
25 does not reach the level of detail that would optimize the effectiveness of that marketing.

The ability to target advertisements to individual consumers based on each consumer’s actual purchases would provide a highly-effective way to present products and/or services to consumers. For example, each consumer could be presented with advertisements for goods and/or services he or she regularly buys in the hopes of
30 increasing the consumer’s purchase of those goods and/or services. Or, the consumer could receive advertisements or offers for goods and/or service that are related to the

consumer's past purchases (e.g., if a consumer recently purchased a lawn mower, then ads for related goods, such as lawn fertilizer or a hedge trimmer, could be provided). Additionally, advertisements could be presented based not on the specific goods and/or services purchased, but on peripheral information related to those purchases, such as the
5 consumer's typical purchase amounts (e.g., consumer buys luxury items or is more cost-conscious), the geographic location of the consumer's transactions, the types of merchants at which the consumer often (or rarely) shops, etc. However, because merchants and advertisers do not have access to individual consumer purchase histories (such as the types of products purchased, dates purchased, amounts spent, specific
10 merchants from which items were purchased, etc.), such targeted marketing has traditionally been unavailable.

Further, many types of offers or redemptions associated with targeted marketing campaigns are difficult for consumers to use and problematic for advertisers to track. For example, many consumers are unlikely to use coupons that require printing from a
15 computer or clipping from a newspaper in order to be used. Accordingly, many consumers ignore such coupons and their associated advertisements.

Another issue related to traditional targeted marketing systems is that advertisers generally only have records as to their own sales data, and they do not have access to information regarding how much consumers spend or how often consumers shop at
20 competitors of the advertisers, or even at unrelated advertisers. Such transaction data, if available, could prove invaluable for marketing and profitability purposes. As an example, one class of consumers could be that of purchasers of home-delivered pizzas. An advertiser (e.g., hypothetical advertiser "Pizza Pub") that delivers pizzas to the homes of customers may rely on past purchases or demographic information within a
25 community to target mailers or television advertisements to those consumers. However, if that advertiser had access to information relating to existing customers of a competitor (e.g., hypothetical merchant "Pizza King"), then the advertiser could target advertisements to the competitor's customers in the hopes of drawing them away from the competitor. Further, the advertiser could then analyze information about the
30 competitor's customers to determine what made the customers choose the competitor's

product initially. Naturally, however, it is difficult for advertisers in most markets to obtain marketing intelligence about consumers of their competitors.

Additionally, financial institutions are always looking for ways to boost their revenue streams and increase customer loyalty. Presentation of valuable marketing offers
5 (such as rebates or savings on goods and/or services) to consumers that use particular financial institution accounts is one way to increase loyalty and entice consumers to use payment mechanisms associated with those accounts (i.e., credit cards, bank cards, etc.). However, most banks lack the internal infrastructure necessary to effectively integrate advertisements from third parties into their existing financial institution portals. If an
10 advertiser could work with a bank to extend offers to its customers based on the bank's knowledge of what its customers purchase, while preventing the advertiser from accessing sensitive or consumer-identifying data, then that information could be used to provide valuable and targeted marketing offers to consumers that are easy for the consumers to redeem, which would in turn lead to greater profits and increased customer
15 loyalty for all parties involved.

Therefore, there is a long-felt but unresolved need for a system or method that interacts seamlessly with sophisticated banking systems and online banking portals, or other transaction-centric information portals or data repositories, to provide targeted
20 marketing offers and advertisements to users of those portals, wherein such targeted marketing is related to each user's transactions and purchases displayed at the portal, as well as the user's purchase histories and/or spending habits. There is a further need for a system or method that enables simple and straightforward redemption of targeted marketing offers while still allowing merchants and advertisers to track the effectiveness of their targeted marketing campaigns. There is yet a further need for a system or method
25 that provides such targeted marketing to financial institution customers without violating privacy laws and obtaining confidential customer information.

BRIEF SUMMARY OF THE DISCLOSURE

Briefly described, and according to one embodiment, aspects of the present
30 disclosure generally relate to systems and methods for providing targeted marketing offers to consumers via online (Internet web-based) portals, particularly online financial

institution portals associated with banks and other financial institutions. A targeted marketing system (TMS), as described herein, enables advertisers to construct highly-relevant advertisements and marketing offers that are displayed to consumers as those consumers access and view their online financial institution account portals. The offers
5 are generally targeted to specific types of consumers based on prior transactions or purchases made by the consumers, as well as patterns in those transactions, overall consumer spending habits, and other offer-triggering events. Generally, the TMS matches specific targeted marketing offers to consumers based upon offer criteria and associated offer-triggering events defined by advertisers, provides matched offers to
10 identified consumers via the consumers' online portals, tracks redemptions and other data associated with the offers, facilitates payment of rewards and redemptions to consumers based on redeemed offers, and enables a variety of other processes and functions as described in greater detail herein.

According to one aspect, the TMS includes an offer management system (OMS)
15 and one or more offer placement systems (OPS's), wherein each OPS operates in association or cooperation with a financial institution's online services system. Generally, the OMS enables creation of targeted marketing campaigns including one or more targeted marketing offers for eventual delivery to consumers based on information received by advertisers, transmission of campaign data to the OPS's, reporting of
20 marketing data and campaign results to advertisers after offers have been displayed to consumers, collecting redemption funds from advertisers based on redeemed offers and distributing those funds to financial institutions, and other processes described in greater detail herein. Generally, operations of an OPS include matching received campaign data from the OMS with de-identified consumer transaction data received from financial
25 institutions, injecting or merging targeted marketing offers into financial institution portals, sending targeted marketing campaign performance data to the OMS, organizing and transmitting redemption data to financial institutions based on offer redemptions paid to consumers, and other processes described in greater detail herein.

More particularly described, aspects of the present disclosure relate to functions
30 and processes associated with an offer placement system (OPS) of the TMS. According to one aspect, the OPS is operatively coupled to a financial institution computer system

(utilizing network security protections of the financial institution computer system) and an offer management system (OMS). The OPS receives campaign data from the OMS corresponding to advertiser-created targeted marketing campaigns including one or more targeted marketing offers. The OPS also receives de-identified transaction data from the financial institution computer system indicating transactions completed by a plurality of consumers. The campaign data and de-identified transaction data are stored in one or more databases within the OPS for subsequent processing. Based on the stored campaign data and de-identified transaction data, the OPS identifies an offer-triggering event associated with a consumer, such as an offer-qualifying transaction, a group of transactions, an online portal session, or some other similar event, matches the offer-triggering event to one or more offers in the campaign data, and delivers information associated with the matched offers to the consumer during an online session conducted by the consumer. As offers are viewed and/or redeemed by consumers, the OPS tracks offer impression and redemption data for subsequent reporting to advertisers, and for instructing the financial institution to issue redemption payments (i.e., rewards) to consumers.

According to another aspect, the present disclosure relates to functions and processes associated with an offer management system (OMS) of the TMS. According to one aspect, the OMS includes an advertiser portal (i.e., graphical user interface) that enables advertisers to define campaign data corresponding to targeted marketing campaigns including one or more targeting marketing offers for subsequent delivery to consumers. In one aspect, the campaigns include market segments that identify groups of consumers that should receive the targeted marketing offers based on advertiser-defined segment criteria corresponding to offer-triggering events associated with the consumers. The OMS receives aggregated consumer transaction data from an OPS for use in campaign creation to provide an estimate of the number of consumers associated with each potential market segment. Once a campaign has been created by an advertiser, the campaign data is stored in one or more OMS databases for subsequent use. The stored campaign data is transmitted to one or more OPS's for subsequent delivery of targeted marketing offers to consumers via the consumers' online financial institution portals. As consumers view and redeem displayed offers, the OMS receives data associated with

offer impressions and redemptions for display to advertisers via the advertiser portal for purposes of analyzing campaign performance, tracking campaign results, etc. According to one aspect, the OMS facilitates payments to financial institutions from advertisers as reimbursements for offer redemption payments made to consumers based on redemption
5 of the targeted marketing offers.

According to an additional aspect, the present disclosure relates to realization and redemption by consumers of targeted marketing offers displayed to the consumers via their online financial institution portals. According to one aspect, a database stores transaction data corresponding to a plurality of financial transactions conducted by
10 consumers, offer data corresponding to the terms of one or more targeted marketing offers delivered to consumers via their online portals, offer redemption data corresponding to terms of targeted marketing offers that have been satisfied by the consumers based on redemption qualifying transactions completed by the consumers or other criteria, and reward data corresponding to a predetermined reward provided to the
15 consumers in response to satisfaction of the terms of the targeted marketing offers. The system generally includes a component for receiving de-identified consumer transaction data from a financial institution and processing the received transaction data to determine if any of the stored targeted marketing offers have been redeemed by one or more consumers based on transactions completed by the consumers. If one or more targeted
20 marketing offers have been redeemed, then the system indicates to the financial institution that a reward should be issued to the appropriate consumers. In one aspect, information relating to the reward is displayed to the consumers in connection with a display of the consumers' transactions, such as directly underneath a listing of the transactions, in relative juxtaposition with one or more of the transactions, etc. In an
25 additional aspect, the reward is paid in a rewards currency associated with each consumer's respective account held at the financial institution.

According to a further aspect, the present disclosure relates to a system for merging or injecting targeting marketing offers into a display of consumer transactions associated with a consumer financial institution portal, for example, in the display of the
30 consumer's account history in a web browser. According to one aspect, an offer placement system (OPS) includes a database for storing targeted marketing offers for

potential display to consumers. As a consumer logs in to his or her financial institution portal to view his or her financial transactions, the consumer's browser receives an account history page from the portal comprising a list of the consumer's transactions. The list of transactions is processed locally at the consumer's machine to generate a list
5 of currently-displayed transactions, which are then transmitted to the OPS. Based on the received list, the OPS accesses its database to identify one or more targeted marketing offers that apply to one or more of the transactions in the list of currently-displayed transactions based on offer selection criteria associated with each offer in the database. Once one or more offers have been identified, a return package is generated at the OPS
10 including information corresponding to the display and placement of the offers in the consumer's transactions display. The OPS then transmits the return package to the consumer's machine, which then injects or merges the received offer information into the web browser with the transactions list in accordance with predetermined offer placement information, whereby the consumer is able to view the injected or merged offers via the
15 browser.

According to one aspect, the injection is effected by an injection script embedded within the account history page provided by the financial institution, wherein the injection script is executable within the web browser environment. In another aspect, the account history page includes a script call code embedded in the code of the account
20 history page that includes a script request via a network pathname to an injection script server that stores the injection script. In various aspects, the injection script comprises a DOM injection Javascript or other similar cross-site scripting code.

These and other aspects, features, and benefits of the claimed invention(s) will become apparent from the following detailed written description of the preferred
25 embodiments and aspects taken in conjunction with the following drawings, although variations and modifications thereto may be effected without departing from the spirit and scope of the novel concepts of the disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

30 The accompanying drawings illustrate one or more embodiments and/or aspects of the disclosure and, together with the written description, serve to explain the principles

of the disclosure. Wherever possible, the same reference numbers are used throughout the drawings to refer to the same or like elements of an embodiment, and wherein:

FIG. 1 illustrates a high-level lifecycle of an exemplary consumer transaction, associated marketing offer, and redemption of that offer according to one embodiment of a targeted marketing system (TMS) constructed in accordance with the present disclosure and certain aspects of the inventions.

FIG. 2 illustrates a high-level overview of one embodiment of a targeted marketing system (TMS) and its associated environment, according to one aspect of the disclosure.

FIG. 3 shows one embodiment of a system architecture for a targeted marketing system (TMS) according to an aspect of the disclosure.

FIG. 4 is a flowchart illustrating the overall processes and functions performed by the offer management system (OMS) according to one embodiment of the present targeted marketing system (TMS).

FIG. 5 is a flowchart illustrating one embodiment of a merchant identification process.

FIG. 6 is an exemplary merchant identification table illustrating data utilized to categorize and identify merchant names within an embodiment of the targeted marketing system (TMS).

FIG. 7 is an exemplary validated merchant table illustrating data associated with merchant names deemed validly identified and thus available for reference in matching consumer transactions to campaign data according to one embodiment of the targeted marketing system (TMS).

FIG. 8 is a flowchart illustrating the campaign generation process from the perspective of an advertiser according to an embodiment of the present targeted marketing system (TMS).

FIG. 9 is an exemplary screen shot of a graphical user interface (GUI) associated with an embodiment of the offer management system (OMS) advertiser portal.

FIG. 10 is a flowchart illustrating one embodiment of the campaign generation process from the perspective of the targeted marketing system (TMS).

FIG. 11 is an exemplary campaign table illustrating advertiser-entered, campaign-related data received during campaign generation.

FIG. 12 is an exemplary segment table illustrating advertiser-entered, segment-related data received during campaign generation.

5 FIG. 13 is an exemplary offer table illustrating advertiser-entered, offer-related data received during campaign generation.

FIG. 14 is a flowchart illustrating the overall processes and functions performed by the offer placement system (OPS) according to one embodiment of the present targeted marketing system (TMS).

10 FIG. 15 is a flowchart illustrating one embodiment of the matching process for matching targeted marketing offers (TMOs) to consumer offer-qualifying purchases (OQPs).

FIG. 16 is an exemplary consumer transaction table illustrating consumer transactions recorded by a financial institution and stored within a financial institution
15 database.

FIG. 17 is an exemplary de-identified consumer transaction table illustrating de-identified consumer transactions recorded by a financial institution.

FIG. 18 is an exemplary matched offer table illustrating identifiers associated with matched transactions and offers as a result of the matching process shown in FIG. 15.

20 FIG. 19, consisting of FIG. 19A and 19B, illustrates a process for injecting or merging matched offers into a display from an online portal, where FIG. 19A is a flowchart illustrating an embodiment of a generalized process for injecting or merging matched offers, and FIG. 19B is a sequence diagram illustrating the sequence of steps associated with injecting matched offers into consumer financial institution portals via a
25 document object model (DOM) injection process according to one embodiment of the targeted marketing system (TMS).

FIG. 20 illustrates an exemplary screen shot of a graphical user interface (GUI) associated with a typical exemplary consumer financial institution portal prior to injection of one or more targeted marketing offers (TMOs) into the portal.

30 FIG. 21 illustrates an exemplary screen shot of a graphical user interface (GUI) associated with a consumer financial institution portal or display with exemplary targeted

marketing offers (TMOs) displayed therein according to an embodiment of the present targeted marketing system (TMS).

FIG. 22 shows a block diagram illustrating the potential matching of three exemplary offers to consumers associated with three unique targeted consumer segments (TCS's) based on predefined dimensions associated with the segments.

FIG. 23 is a flowchart illustrating an embodiment of the redemption process for determining whether one or more targeted marketing offers (TMOs) have been redeemed by a consumer, and reporting such redemption to the respective financial institution.

FIG. 24 is an exemplary offer impression table illustrating recorded offers that have been viewed by consumers based on consumer log-ins to financial institution portals.

FIG. 25 is an exemplary offer redemption table illustrating offers that have been redeemed by consumers based on redemption-qualifying purchases (RQPs).

FIG. 26 is an exemplary campaign results table illustrating aggregated offer performance data (i.e., offer impressions and redemptions).

FIG. 27 illustrates an exemplary screen shot of a GUI associated with a consumer financial institution portal with a targeted marketing offer (TMO), redemption-qualifying purchase (RQP), and a RQP icon displayed therein according to an embodiment of the present targeted marketing system (TMS).

FIG. 28 illustrates an exemplary screen shot of a GUI associated with a consumer financial institution portal displaying a representative rewards page according to an embodiment of the present targeted marketing system (TMS).

FIG. 29 illustrates an exemplary offer management system (OMS) hardware architecture upon which an embodiment of the OMS may be implemented as herein described.

FIG. 30 illustrates an exemplary offer placement system (OPS) hardware architecture upon which an embodiment of the OPS may be implemented as herein described.

DETAILED DESCRIPTION

Prior to a detailed description of the disclosure, the following definitions are provided as an aid to understanding the subject matter and terminology of aspects of the present systems and methods, are exemplary, and not necessarily limiting of the aspects of the systems and methods, which are expressed in the claims. Whether or not a term is capitalized is not considered definitive or limiting of the meaning of a term. As used in this document, a capitalized term shall have the same meaning as an uncapitalized term, unless the context of the usage specifically indicates that a more restrictive meaning for the capitalized term is intended. However, the capitalization or lack thereof within the remainder of this document is not intended to be necessarily limiting unless the context clearly indicates that such limitation is intended.

Definitions/Glossary

Advertiser: an entity that provides or sells goods and/or services to consumers, and creates targeted marketing campaigns associated with those goods and/or services as described herein.

Aggregated Consumer Transaction Data: subset of de-identified consumer transaction data derived from all stored de-identified consumer transaction data in each offer placement system (OPS) representative of consumers that satisfy a given targeted consumer segment (TCS). Generally collected and transmitted to the offer management system (OMS) in response to an advertiser-initiated query during generation of a targeted marketing campaign (TMC). Generally synonymous with *aggregated transaction data*, *aggregated consumer transactions*, *aggregated consumer transaction information*, and *aggregated population totals*.

Campaign: see *targeted marketing campaign (TMC)*.

Campaign Data: information associated with a targeted marketing campaign (TMC), as well as its associated targeted consumer segments (TCS's) and targeted

marketing offers (TMOs). Generally includes data and/or information stored in the campaign table, segment table, and offer table.

Campaign Delimiting Information: information associated with a targeted
5 marketing campaign (TMC) that limits or defines the campaign, including but not limited to: a campaign name, a campaign theme, a campaign start date, a campaign end date, etc. Generally synonymous with *campaign criteria*.

Campaign Performance Data: information associated with consumer interaction
10 (i.e., results or performance) of a targeted marketing campaign (TMC). Generally includes data and/or information stored in the offer redemption table, offer impression table, and campaign results table. Generally synonymous with *campaign results data and performance data*.

Campaign Results Table: a data table or file in the targeted marketing system
15 (TMS) associating information relating to the performance (results) of one or more targeted marketing campaigns (TMCs) and associated offers, including but not limited to: an offer identifier (ID), aggregated offer impressions, aggregated offer redemptions, etc.

Campaign Table: a data table or file in the targeted marketing system (TMS)
20 associating information relating to one or more targeted marketing campaigns (TMCs) conducted by a particular advertiser (or merchant), including but not limited to: a campaign identifier (ID), merchant or advertiser identifier (ID), an author identifier (ID), a campaign start date, a campaign end date, etc.

Competitor: an entity that provides or sells competing or related goods and/or
25 services to those of a merchant. Generally synonymous with *merchant* and *advertiser competitor*.

Consumer: an entity (individual, business, etc.) that holds at least one account
30 with one or more financial institutions, and completes transactions and purchases with

advertisers and merchants. According to aspects of the invention(s), based on completed transactions or other offer-triggering events (OTEs), a consumer becomes eligible to receive one or more targeted marketing offers (TMOs) via the consumer's online financial institution portal.

5

Consumer Transaction Table: a data table or file stored and retained within a financial institution's transaction system/processor associating information relating to particular consumer transactions, including but not limited to: a consumer name, a consumer identifier (ID), a consumer account identifier (ID), a transaction identifier (ID),
10 a location identifier (ID) (e.g., zip or postal code, city, state, etc.), a merchant identifier (ID), an amount, a rewards type, etc.

De-Identified Consumer Transaction Table: a data table or file in the targeted marketing system (TMS), and specifically retained in one or more offer placement
15 systems (OPS's), associating de-identified information relating to particular transactions within a financial institution's online banking system that may be eligible to be matched with a targeted marketing offer (TMO), including but not limited to: an account global unique identifier (GUID) that relates back to a particular consumer or customer of the financial institution, a transaction identifier (ID), a location identifier (ID) (e.g., zip or
20 postal code, city, state, etc.), a merchant identifier (ID), an amount, a rewards type, etc.

De-Identified Transaction: a consumer transaction or purchase that has been processed according to an internal financial institution procedure to remove specific consumer- or account-identifying information. Generally synonymous with *de-identified*
25 *consumer transaction*.

Demilitarized Zone (DMZ): a firewall configuration for selecting or demarcating local area networks (LANs). Computers residing behind the DMZ initiate secure outbound requests via the DMZ; computers within the DMZ in turn respond, forward, or
30 re-issue requests out to the Internet or other public networks. Generally used in association with financial institution security protocols.

Dimension: a delineating category or information associated with a targeted consumer segment (TCS) that serves to narrow the population of consumers that may receive a targeted marketing offer (TMO) based on criteria associated with specific consumer transactions or other offer-triggering events (OTEs), including but not limited to: a merchant or advertiser category (e.g., retail, entertainment, dining, etc.), a merchant or advertiser name or identifier, a transaction location (e.g., zip or postal code, city, etc.), a spend amount, a total spend amount for a given time period, an average spend amount for a given time period, a total number of transactions in a given time period, etc. Generally synonymous with *segment delimiting information* or *segment criteria*.

Dynamic Resegmentation: process of automatically delivering follow-up targeted marketing offers (TMOs) to consumers who redeem original or initial TMOs.

Financial Institution: an entity that provides banking or other financial-related services to consumers (customers) and, in connection with the disclosed invention(s), offers online banking capabilities to its customers, such entities including but not limited to: banks, credit unions, credit card companies, brokerage institutions, lending institutions, savings & loans, etc. In order to utilize aspects of the claimed invention(s), a financial institution will generally include and/or operate or control a financial institution computer system that enables the various functions of the financial institution, wherein the financial institution computer system includes, among other system components, a financial institution portal, a financial institution transaction processor, and a financial institution web server. Generally synonymous with *bank*.

Financial Institution Portal: a secure and individually-accessible online portal (i.e., having a graphical user interface and/or other controls for use by consumers) that displays information related one or more accounts held by a consumer with a respective financial institution. Generally, a financial institution portal is Internet-accessible via a financial institution webpage, and displays prior financial transactions associated with the consumer's account(s), as well as targeted marketing offers (TMOs) and subsequent

redemptions of those offers. Information associated with financial institution portals (e.g., transactions, TMOs, etc.) is also generally accessible via consumer mobile devices (i.e., through wireless Internet connections, mobile banking applications, SMS alerts, etc.), email notifications, and other similar mechanisms. Generally synonymous with
5 *banking portal*.

Financial Institution Transaction Processor: server or processor within a financial institution that receives and stores consumer transaction data from merchants, and, in accordance with aspects of the claimed invention(s), de-identifies such transaction
10 data to remove consumer- and/or account-specific information, transmits de-identified consumer transaction data to the offer placement system (OPS) for offer matching purposes, issues redemptions/rewards to consumers, and performs other similar functions as described herein. Generally synonymous with *financial institution transaction system*.

15 ***Financial Institution Web Server:*** a computer server within a financial institution for serving financial institution content, such as web pages, transaction data, targeted marketing offers (TMOs), redemptions/rewards, and other similar content to consumers via a financial institution portal. Generally enables communication and data
20 sharing between internal components of the financial institution (e.g., financial institution transaction processor) and components of the targeted marketing system (TMS). In accordance with aspects of the invention, a financial institution web server provides and operates a corresponding and associated financial institution portal.

Identity Assurance Rating: a percentage-based measure of the likelihood that a
25 given unidentified merchant name extracted from consumer transaction data is associated with or represents a known or validated merchant within the targeted marketing system (TMS) as a result of a merchant identification process. Generally synonymous with *identity assurance score*.

30 ***Impression:*** an occurrence or instance of a consumer logging in to his or her financial institution portal, whereby a particular targeted marketing offer (TMO) is

displayed to (and/or viewed by) the consumer. Generally synonymous with *offer impression*.

Matched Offer Table: a data table or file in the targeted marketing system (TMS) associating information relating to particular targeted marketing offers (TMOs) that have been matched to specific consumer transactions or specific offer-triggering events (OTEs) and may be delivered to the consumers that completed the specific transactions or OTEs, including but not limited to: a transaction identifier (ID), an offer-triggering event identifier (ID), an offer identifier (ID), an account global unique identifier (GUID) of the consumer account, etc.

Merchant: an entity that provides or sells goods and/or services to consumers. As used herein, generally comprises an entity that provides or sells competing or related goods and/or services to those of an advertiser. Generally synonymous with *competitor* and *advertiser competitor*.

Merchant Category: a predetermined grouping of merchants based on the specific nature of the merchants' business(s) and/or service(s). Generally, each merchant associated with the targeted marketing system (TMS) belongs to one or more merchant categories. Merchant categories generally serve as optional dimensions used by advertisers to define targeted consumer segments (TCS's) during generation of targeted marketing campaigns (TMCs).

Merchant Identification Table: a data table or file in the targeted marketing system (TMS) associating information relating to unidentified merchant names which have been analyzed via the merchant identification process and associated with known or validated merchants recognized by the TMS, including but not limited to: an unidentified merchant key, an unidentified merchant name, a validated merchant key, a validated merchant name, a merchant category, an identity assurance rating, etc.

30

Offer: see *targeted marketing offer (TMO)*.

Offer Defining Information: information associated with a targeted marketing offer (TMO) that limits or defines the offer, including but not limited to: an offer identifier (ID), an offer amount, an offer start date, an offer end date, offer text, an offer image (e.g., a logo or trademark), a minimum qualifying spend amount, etc. Generally
5 synonymous with *offer specifics*, *offer terms* or *terms of offer*.

Offer Display Information: information associated with a targeted marketing offer (TMO) that is displayed to a consumer via the consumer's financial institution
10 portal.

Offer Impression Table: a data table or file in the targeted marketing system (TMS) associating information indicating that a particular targeted marketing offer (TMO) was actually delivered to (and/or viewed by) a particular consumer, including but
15 not limited to: an offer identifier (ID), an account global unique identifier (GUID), a date of impression, a time of impression, etc.

Offer Management System (OMS): component of the targeted marketing system (TMS) that enables creation of targeted marketing campaigns (TMCs), targeted consumer segments (TCS's), and targeted marketing offers (TMOs), reporting of marketing data
20 and campaign results to advertisers, transmission of data to and receipt of data from one or more offer placement systems (OPS's), and other similar processes as described herein. Generally includes one or more databases, memories, servers, computer readable media, processors, algorithms, portals, and other similar components.

Offer Placement System (OPS): component of the targeted marketing system (TMS) that enables matching of received campaign data from the offer management system (OMS) with de-identified consumer transaction data from financial institutions,
25 injecting or merging targeted marketing offers into financial institution portals, organizing and transmitting redemption data to financial institutions for reimbursements to consumers, transmission of data to and receipt of data from the OMS, and other similar
30

processes as described herein. Generally includes one or more databases, memories, servers, computer readable media, processors, algorithms, and other similar components.

Offer-Qualifying Purchase (OQP): a transaction or purchase by a consumer that
5 may be eligible (qualify) to receive a targeted marketing offer (TMO), once processed by a system constructed as described herein. Generally synonymous with *offer-qualifying transaction*.

Offer Redemption Payment (ORP): a value provided to a consumer or credited
10 to a consumer's account based on the consumer's redemption of a particular targeted marketing offer (TMO), including but not limited to: financial payment, cash back, account credit, account points, airline miles, hotel points, restaurant points, and other similar incentives. As used herein, an ORP is not necessarily a "payment" in the sense of money or funds, and should thus be understood as generally synonymous with *reward*.

15

Offer Redemption Table: a data table or file in the targeted marketing system (TMS) associating information indicating that a particular targeted marketing offer (TMO) delivered to a particular consumer was acted upon (i.e., redeemed), including but not limited to: an offer identifier (ID), an account global unique identifier (GUID), a date
20 of redemption, a time of redemption, etc.

Offer Table: a data table or file in the targeted marketing system (TMS) associating information relating to the content of particular targeted marketing offers (TMOs) for delivery to selected consumers, including but not limited to: an offer
25 identifier (ID), a campaign identifier (ID), a segment identifier (ID), an offer amount, an offer start date, an offer end date, offer text, an offer image (e.g., a logo or trademark), a minimum qualifying spend amount, etc.

Offer-Triggering Event (OTE): an event or series of events that, if satisfied,
30 dictate that an offer or advertisement should be provided to a consumer, including but not limited to: an offer-qualifying purchase (OQP), satisfaction of a targeted consumer

segment (TCS) or some other merchant-defined criteria, conduction of an online financial institution portal session by a consumer, etc. Generally, an offer-triggering event comprises satisfaction of a predefined category or set of criteria identifying how a consumer spends (or does not spend) money, typically based on each consumer's
5 transaction history (e.g., types of merchants at which a consumer typically shops, types of merchants at which a consumer rarely shops, average number of transactions completed by a consumer for a given month, average spend amount (dollar value) of a consumer's transactions, geographic locations in which a consumer typically shops, etc.).

10 ***OMS Advertiser Portal:*** an online, secure, individually-accessible portal (i.e., graphical user interface) used by advertisers, advertising agencies, and other similar entities to create targeted marketing campaigns (TMCs), targeted consumer segments (TCS's), and targeted marketing offers (TMOs), review previously-created campaigns, segments, and offers, review and analyze reports and statistics related to performance of
15 particular campaigns, conduct billing operations, and carry out other similar tasks.

Redemption: realization of a targeted marketing offer (TMO) by a consumer via a redemption-qualifying purchase (RQP).

20 ***Redemption-Qualifying Purchase (RQP):*** a transaction or purchase by a consumer that satisfies the associated criteria of at least one targeted marketing offer (TMO), and thereby qualifies the consumer for a reward. Generally, but not always, associated with the same account with which the offer-qualifying purchase (OQP) or offer-triggering event (OTE) occurred. Generally synonymous with *redemption-qualifying transaction*.
25

Reverse Proxy: a security component, often used by financial institution computer systems, that provides a layer of security to each financial institution's local area network (LAN) in addition to the financial institution's firewall(s). Generally
30 includes computers and/or processors acting as proxy servers to intercept, inspect, and (if necessary) redirect inbound and outbound communications between components on

either side of the reverse proxy. Generally used in association with financial institution security protocols, for example, to handle Secure Sockets Layer (SSL) encryption often used between a consumer's computer and a financial institution web server, caching of content, load balancing, performance acceleration, and for other reasons understood by those skilled in the art.

Segment: see *targeted consumer segment (TCS)*.

Segment Delimiting Information: see *dimension*.

10

Segment Table: a data table or file in the targeted marking system (TMS) associating information used to identify a particular segment of consumers based on transactions completed by those consumers, including but not limited to: a segment identifier (ID), a campaign identifier (ID), a merchant or advertiser category (e.g., retail, entertainment, dining, etc.), a merchant or advertiser name or identifier (ID), a transaction location (e.g., zip or postal code, city, etc.), a spend amount, etc.

15

Targeted Consumer Segment (TCS): a group of consumers to which at least one targeted marketing offer (TMO) applies based on the specifics of the offer(s) and one or more offer-qualifying transactions or offer-triggering events (OTEs) completed by each consumer. Generally a subset of the entire population of available consumers. Generally synonymous with *segment* and *market segment*.

20

Targeted Marketing Campaign (TMC): a marketing campaign constructed by an advertiser, advertising agency, or other entity designed to generate and place advertisements in the form of targeted marketing offers (TMOs) and display such TMOs to consumers via the consumers' online financial institution portals. Generally includes one or more targeted consumer segments (TCS's) and one or more TMOs. Generally synonymous with *campaign*.

25

30

Targeted Marketing Offer (TMO): an offer to deliver a particular reward, refund, financial payment, offer redemption payment, or other incentive to a consumer via a system constructed as described herein, in response to the consumer satisfying certain requirements of the offer, e.g., purchase of goods or services in accordance with the offer, provision of requested information, or other required action or condition satisfaction. Generally, each TMO is associated with a corresponding targeted consumer segment (TCS). As described herein, TMOs are presented to consumers during the consumers' online banking sessions via each consumer's financial institution portal. Generally synonymous with *offer* or *advertisement*.

10

Targeted Marketing System (TMS): overall system as described herein for creating targeted marketing campaigns, delivering those campaigns to consumers via financial institution portals, tracking consumer redemption of marketing offers, reporting campaign results, maintaining privacy and security amongst financial institution clients (i.e., consumers), and performing a host of other tasks and processes as described in detail herein. Generally includes an offer management system (OMS), one or more offer placement systems (OPS), and other additional components as described herein.

15

20

Transaction Table: see *consumer transaction table* and *de-identified consumer transaction table*.

Unidentified Merchant Key: a unique identifier assigned to each unidentified merchant name within the targeted marketing system (TMS).

25

Unidentified Merchant Name: a merchant name extracted from consumer transaction data and transmitted to the offer management system (OMS) for identification and association with a recognized or validated merchant within the targeted marketing system (TMS).

Validated Merchant Key: a unique identifier assigned to each validated merchant name that has been associated with a recognized merchant within the targeted marketing system (TMS) based on completion of the merchant identification process.

5 **Validated Merchant Name:** an accepted or recognized name (and all validated variations thereof) associated with a given merchant within the targeted marketing system (TMS). Generally, unidentified merchant names are associated with validated merchant names upon completion of the merchant identification process and the attainment of an identity assurance rating above a predefined threshold rating. Generally synonymous
10 with *cleansed merchant name*.

Validated Merchant Table: a data table or file in the targeted marketing system (TMS) associating information relating to merchant names that have been validated via the merchant identification process based on a calculated identity assurance rating above
15 a predefined threshold rating, including but not limited to: an unidentified merchant key, an unidentified merchant name, a validated merchant key, a validated merchant name, a merchant category, an identity assurance rating, etc.

Overview

20 For the purpose of promoting an understanding of the principles of the present disclosure, reference will now be made to the embodiments illustrated in the drawings and specific language will be used to describe the same. It will, nevertheless, be understood that no limitation of the scope of the disclosure is thereby intended; any alterations and further modifications of the described or illustrated embodiments, and any
25 further applications of the principles of the disclosure as illustrated therein are contemplated as would normally occur to one skilled in the art to which the disclosure relates. All limitations of scope should be determined in accordance with and as expressed in the claims.

Aspects of the present disclosure generally relate to systems and methods for
30 providing targeted marketing offers to consumers via online portals, especially applicable but not limited to financial institution portals. Although the description which follows is

primarily directed to application of the claimed invention(s) to financial institution portals, it should be understood that the invention(s) have broader applicability to any systems with portals that allow consumer viewing of predetermined information maintained by third parties on behalf of such consumers, especially those that relate to financial transactions, purchases, sales, or other commercial transactions that can be analyzed for purposes of generated targeted marketing offers based on such predetermined information.

A targeted marketing system (TMS), as described here in context of a financial institution portal, enables advertisers to construct highly-relevant advertisements and marketing offers that are displayed to consumers as those consumers access and view their online financial institution account portals. The offers are generally targeted to specific consumers based on prior transactions or purchases made by the consumers, as well as patterns in those transactions and overall consumer spending habits. However, based on aspects of embodiments of the TMS described in detail herein, advertisers have no knowledge of specific consumers nor any information relating to particular consumer transactions. Thus, embodiments of the TMS allow targeted advertising on a banking portal in a manner that protects all consumer data and privacy, and is compliant with the highly-complex banking and financial institution regulatory environment.

Additionally, embodiments of the TMS, via cooperation with one or more financial institutions, further enable accurate and automatic redemption or realization of offers when consumers make redemption-qualifying purchases. Further aspects of the present systems and methods facilitate reporting and analytics to advertisers regarding consumer interaction with and redemption of marketing offers, aggregation of de-identified financial transaction data for advertiser use in targeted marketing campaign creation, and a host of other functions and processes as are described in detail herein.

According to one embodiment, a TMS includes an offer management system (OMS) and one or more offer placement systems (OPS's), wherein each OPS operates in association or cooperation with a financial institution's online services system (i.e., online environment), including a financial institution transaction processor and financial institution web server, thereby providing a financial institution portal. Generally, the OMS enables creation of targeted marketing campaigns by advertisers, reporting of

marketing data and campaign results to advertisers, collecting redemption funds from advertisers and distributing those funds to financial institutions, and other processes described in greater detail below. Generally, operations of an OPS include matching received campaign data from the OMS with de-identified consumer transaction data
5 received from financial institutions, injecting or merging targeted marketing offers into financial institution portals, sending targeted marketing campaign performance data to the OMS, organizing and transmitting redemption data to financial institutions for reimbursements to consumers, and other processes described in greater detail below.

In one embodiment, “de-identified” transaction data (i.e., transaction data void of
10 any consumer- or account-specific identifying information) is sent to an OPS by a respective financial institution. Typically, at least one OPS is in operative association with each participating financial institution to allow direct communication between each OPS and its respective financial institution. Generally, the transaction data is de-identified by each financial institution according to the institution’s own internal
15 protocols and procedure for removing account information and other consumer-identifying information. Each OPS stores this information for subsequent offer matching. Additionally, each OPS aggregates the de-identified consumer transaction information and makes such information available to the OMS for use in campaign creation. When needed, the OMS requests and accesses this aggregated transaction data and utilizes it
20 during campaign creation to estimate potential populations of consumers that will receive targeted marketing offers associated with campaigns, and other similar uses. During campaign creation, advertisers that wish to provide targeted marketing offers (TMOs) interact with an OMS advertiser portal that displays campaign specifics, enables creation of targeted marketing segments and offers, allows advertisers to define dimensions and
25 specific criteria associated with each segment and offer, etc.

Once a campaign (and its associated offers) has been created, the OMS transmits the campaign data to each OPS for merging with transaction data and delivery to consumers. According to one embodiment, each OPS, via a predetermined matching algorithm, matches specific consumer financial transactions with offers that satisfy the
30 segment dimensions associated with the offers. According to another embodiment, rather than being matched to specific transactions, offers are matched to consumers’ offer-

triggering events, such as a pattern or series of transactions that meet a certain set of segment dimensions. After each offer-qualifying transaction or other offer-triggering event has been matched with a respective offer or offers, the offers are displayed to consumers via each consumer's online financial institution portal. Thus, when a
5 consumer logs in to his or her portal, he or she is presented with offers that are targeted to prior transactions or purchases made by the consumer. For example, the offers may be directed at transactions involving competitors of the advertiser that created the respective marketing campaign (although this is not always the case).

In one embodiment, a consumer redeems a targeted marketing offer by making a
10 redemption-qualifying purchase (RQP) using a payment mechanism (e.g., a debit card or credit card) associated with the respective financial institution account to which the offer was originally related. The RQP is subsequently recorded by the financial institution and is transmitted to the OPS associated with that institution. The OPS then examines each received de-identified transaction to determine if it qualifies as an RQP associated with a
15 targeted marketing offer previously presented to and received by the consumer. Once verified as an RQP, the OPS records and stores the instance of the RQP (e.g., within its respective offer redemption table, discussed below) for subsequent processing. For example, the OPS determines the associated reward to be paid to the consumer by converting the reward value of the offer from dollars (as it is typically originally entered
20 by an advertiser within an OMS portal when the offer is created, discussed below) to the appropriate rewards type (e.g., points, miles, etc.) associated with the consumer account that completed the RQP. Subsequently, the OPS provides a visual indication to the consumer in the financial institution portal that the purchase qualified for a redemption based on the previous offer.

25 At predetermined time intervals (e.g., daily, weekly, monthly) or continuously or on request, each OPS provides notification to its associated financial institution as to the sum of all offer redemption payments (ORPs) to be credited to each consumer's account. The sum of the ORPs associated with each particular targeted marketing offer (TMO) or campaign is determined by each OPS and transmitted to the OMS for storage (e.g., within
30 its campaign results table, discussed below) and subsequent processing. At predetermined time intervals or continuously or on request, advertisers issue payments to

financial institutions (e.g., by depositing or transferring funds to the OMS for transmission to each OPS for payment to financial institutions) for reimbursement of the ORPs yielded from their respective TMOs based on rewards issued to consumers. After the completion of a targeted marketing campaign (or during its operation), advertisers are
5 able to view results and performance data associated with the campaign via an OMS portal.

Description of Targeted Marketing System, Components, and Processes

For purposes of example and explanation of the fundamental processes and
10 components of the disclosed systems and methods, reference is made to FIG. 1, which depicts a high-level lifecycle **100** of an exemplary transaction, an associated targeting marketing offer, and redemption of that offer according to one embodiment of a targeted marketing system (TMS) constructed and operated in accordance with various aspects of the claimed invention(s). As will be understood and appreciated, the example lifecycle
15 shown in FIG. 1 represents merely one approach or embodiment of the present system, and other aspects (e.g., delivery and/or redemption of offers based not on singular transactions, but on a series or pattern of transactions) are used according to various embodiments of the present system.

As shown in the lifecycle **100**, a process for targeted marketing offer delivery
20 commences with a purchase from or financial transaction with a merchant **101** (e.g., hypothetical advertiser competitor Pizza King) by a consumer **103**. As defined elsewhere herein, an “advertiser” describes an entity that creates a targeted marketing campaign associated with its goods and/or services, whereas a “merchant” or “advertiser competitor” is an entity that sells competing and/or related goods and/or services to those
25 of the advertiser. The terms “advertiser”, “merchant”, and “advertiser competitor” are used herein for purposes of discussion and explanation only, and, as will be understood and appreciated, are not intended to define or limit a particular class of entities. For example, an advertiser may fulfill roles as both an advertiser and a merchant, wherein the advertiser creates marketing campaigns targeted to consumers, and is also the subject of
30 its competitors’ marketing campaigns (and vice versa). Thus, for practical purposes, advertisers and merchants are interchangeable. For purposes of discussion and ease of

reference, however, advertisers are referred to herein as those that create marketing campaigns, and merchants (or advertiser competitors) are those that provide competing or related goods and/or services to those of advertisers.

In the example shown in FIG. 1, at some point in time, an advertiser (in this
5 example Pizza Pub, not the merchant Pizza King **101**) generates a targeted marketing campaign (TMC) associated with its goods and/or services (block **105**). In one embodiment, the campaign is created via an OMS advertiser portal within the targeted marketing system (TMS), as described elsewhere herein. Generally, advertisers define campaign specifics, such as the start and end date of a campaign, segments of consumers
10 that the campaign will target (based on physical location of consumer purchases, spend amounts, etc.), specific offer amounts, texts, logos associated with campaign offers, and various other predetermined campaign criteria (discussed in greater detail below).

As shown in block **105**, the exemplary campaign has been generated by an advertiser (e.g., “Pizza Pub”), and is scheduled to run between June 1, 2008 and June 30,
15 2008. Thus, any consumer transactions occurring within those dates may be subject to this specific campaign. The exemplary campaign also defines a particular consumer transaction segment (i.e., transactions occurring in California at advertiser competitor “Pizza King” locations, wherein the transaction is for an amount greater than \$25). The representative campaign shown in block **105** also includes an offer to be presented to
20 consumers, wherein a consumer is offered \$10 off the price of any purchase of \$25 or more at a Pizza Pub in June, and includes the advertiser-defined text: “Pizza Pub voted country’s best breadsticks!”. As will be understood and appreciated, the campaign criteria shown in block **105** are presented for illustrative purposes only, and are in no way intended to limit the scope of campaign specifics and dimensions available to advertisers
25 for campaign creation.

According to one embodiment, the TMS gathers all advertiser offers centrally, and then displays those offers with corresponding consumer transactions via a consumer’s financial institution portal. In one aspect, if a transaction, group of transactions, or other offer-triggering event (OTE) meets the criteria of one of the
30 targeted marketing offers defined in a campaign, then that offer is associated with the transaction, group of transactions, or OTE, and is displayed to a consumer via the

consumer's banking portal (assuming there are no competing offers that could also apply to the transaction(s) or OTE, in which case a ranking algorithm may be utilized to determine which offer(s) are displayed). Generally, each campaign includes one or more targeted marketing offers of which each is presented to one or more targeted consumer segments as defined by the advertiser. As will be understood and appreciated, each campaign may include a plurality of segments and offers, depending on the given advertiser's preferences. Further, each offer and segment may include a variety of criteria or dimensions that define the scope of each.

As shown in block **107**, a consumer **103** purchases a pizza (or pizza-related items) from a merchant **101** (e.g., Pizza King) of an advertiser (e.g., Pizza Pub). The purchase is represented in block **107**, which is a representation of the transaction as shown in the consumer's conventional financial institution portal (i.e., with no offer displayed). The purchase shown in block **107** is a representative offer-qualifying purchase (OQP) **115** (discussed in greater detail below). Generally, the consumer **103** is able to view a plurality of recent, prior transactions or purchases associated with one or more of the consumer's accounts via an interactive and scrollable webpage associated with an online financial institution portal. As shown, the exemplary purchase occurred on June 2, 2008, at Pizza King, and was for the amount of \$35.98. This representative and exemplary transaction is referenced throughout this disclosure for discussion purposes.

As will be understood by one of ordinary skill in the art, when a purchase is made by a consumer via some mechanism associated with a consumer account (e.g., credit card, debit card, paper check, etc.), that transaction is recorded by the respective financial institution and made available for online viewing within the consumer's financial institution portal. The portal typically displays a plurality of financial transactions, each transaction including transaction-specific information such as the transaction date, purchase amount, merchant, etc. Thus, while only one transaction is shown in block **107**, it will be understood that many transactions are typically displayed in consumer banking portals. Additionally, according to various embodiments of the present system, if a transaction qualifies for receipt of an offer, then the offer will be displayed in relative juxtaposition with the transaction in the consumer's banking portal (as discussed below in

association with block **109**). Thus, the conventional portal display represented by block **107** is presented for illustrative purposes only.

Still referring to FIG. 1, block **109** is a representation of the consumer's financial institution portal with the targeted marketing offer (TMO) **113** displayed in perceptible association or juxtaposition with the consumer transaction that, in this example, triggered the presentation of the offer, e.g. the offer-qualifying purchase (OQP) **115**. In one embodiment of the TMS, transactions are matched with TMOs by a matching algorithm within each offer placement system (OPS) in a manner such that advertisers have no knowledge of specific consumers or their accounts that receive the TMOs (described in greater detail below). As shown in block **109**, because the consumer's transaction satisfied the criteria (i.e., the "terms of offer" or "offer terms") defined in the campaign for the specific TMO **113** (i.e., purchase within the start and end date of the campaign, at Pizza King, for an amount greater than \$25, etc.), the consumer **103** was presented with the respective TMO. As shown, the TMO **113** indicates that if the consumer **103** makes any purchases (via a payment mechanism associated with the particular financial institution account) at a Pizza Pub (i.e., advertiser) of greater than \$25 in the month of June, the consumer will receive \$10 off of that purchase.

In an alternate embodiment, rather than displaying a TMO in juxtaposition with a specific transaction, the TMO is displayed as a banner advertisement or pop-up advertisement, or on a separate offer(s) page, or via some other similar display mechanism (see, e.g., FIG. 21). Further, some TMOs are triggered not by a single, specific transaction, but rather by an offer-triggering event (OTE), such as an accumulation of a consumer's transactions over time that satisfy a predefined segment based on average spend amounts at a given merchant or merchant type, or something similar. Accordingly, these TMOs are generally related to a consumer's purchase history or spending habits, and not to particular transactions, and are thus generally displayed in a consumer's financial institution portal.

As will be apparent, the specific and exemplary TMO **113** shown in FIG. 1 is an attempt by the advertiser (i.e., Pizza Pub) to attract consumers from one of its competitors **101** (i.e., Pizza King). Because the consumer **103** made a purchase at a Pizza King previously, the advertiser can infer that the consumer has a propensity to buy pizzas or

pizza-related items. Thus, according to one aspect, offers within embodiments of the TMS are highly targeted because they are provided to consumers that already have an interest in the particular type or category of goods and/or services provided by the advertiser, or might be interested in related goods or services to those of a advertiser. As
5 will be understood, however, offers do not have to be targeted to advertiser competitors, but instead could be targeted to consumers who already shop with a given advertiser for purposes of increasing business volume. For example, the advertiser could reward consumers and generate loyalty by offering frequent customers additional incentives to shop with the advertiser. Offers may also be targeted to related product areas that often
10 go hand-in-hand with the advertiser's products or services (e.g., a golf sporting goods store targeting offers to consumers who made purchases at a golf course). Or, offers may be targeted to broad categories, such as consumers who shop at luxury stores, or consumers who rarely buy fast food items, etc. In general, regardless of the form of the offers, they are typically highly relevant because they are targeted based on how a
15 consumer already spends money.

As will be understood and appreciated, a virtually unlimited number of financial institutions may utilize aspects of the present systems and methods. Accordingly, in one embodiment, offer presentation and display is customized to match the overall look and feel of each institution's online banking environment. As shown in block **109**, the TMO
20 **113** is presented in perceptible association or operative juxtaposition with the prior transaction to which the TMO was matched (i.e., the offer is presented in relative proximity to its associated transaction). As will be understood, the offer may be displayed according to a variety of presentation forms, such as immediately under the prior transaction (as shown in block **109**), indented under the transaction, in a contrasting
25 type, font, or color as compared to the transaction, etc. If the offer is matched not to a single transaction, but to an offer-triggering event (OTE), then the offer may be displayed in a more general display manner (e.g., via a pop-up or banner advertisement), although not necessarily. Regardless, when a consumer **103** logs into his or her portal, he or she will see an offer associated with each transaction or OTE that has criteria matching a
30 potential offer (assuming at least one of the consumer's transactions can be matched to an offer).

In some circumstances, the consumer **103** may be presented with multiple offers corresponding to multiple transactions. In other circumstances, no offers will be presented because the consumer **103** made no recent purchases or satisfied any OTEs that match offer criteria of any potential offers. Additionally, in one embodiment, the presentation of offers complies with guidelines established by each financial institution (e.g., number of offers allowed per display page, format of offers, location of offers, etc.). As will be understood, while the TMO **113** is shown listed in block **109** immediately underneath the corresponding transaction, offers may be presented in any number of ways, such as by pop-up advertisements, listing of offers in a separate section of the financial institution portal display, and via other similar display formats (provided that consumers are able to perceive and subsequently redeem the offers).

Still referring to FIG. 1, according to one embodiment, if a consumer **103** decides to redeem (i.e., accept or respond to) an offer as shown in **109**, the consumer is merely required to satisfy the offer criteria, and the TMS instructs the financial institution to credit the offer redemption value (i.e., reward) to the consumer's account or provide the reward to the consumer via some other appropriate reward mechanism. As shown in block **111** of the example lifecycle **100**, the consumer made a redemption-qualifying purchase (RQP) **117** at an advertiser location (i.e., Pizza Pub) on June 15, 2008 for \$28.93. Because this purchase fell within the advertiser-defined offer criteria (i.e., in June, at a Pizza Pub, greater than \$25, etc.), the TMS automatically detected the transaction as an RQP **117**, and thus instructed the financial institution to credit the consumer's account accordingly (discussed in greater detail below). Next to the transaction is an RQP icon **119** (shown and discussed in greater detail in conjunction with FIG. 27) indicating to the consumer **103** that he or she redeemed a previously-presented TMO **113**, and thus received a reward for the subject purchase.

In one embodiment, when the consumer **103** clicks on the icon **119** via a cursor (i.e., "mouse"), or simply hovers the cursor over the icon (i.e., "mouse over"), or interacts with the icon in some other understood manner, the financial institution portal displays information relating to the reward received by the consumer. As will be understood and appreciated, the reward may be indicated to the consumer **103** in a variety of ways, such as via a separate line item in the financial institution portal, an email notification, etc.

Therefore, embodiments of the present TMS are in no way limited to use of an RQP icon **119** to indicate redemption payments or rewards.

As will be appreciated, all participatory parties benefit from use of embodiments of the targeted marketing system. Advertisers are given access to new, online marketing channels with large consumer populations. Embodiments of the targeted marketing system enable advertisers to provide highly-targeted advertisements and offers to consumers based on how those consumers already spend money. Advertisers are also provided with data and reports related to the effectiveness of their offers and advertising campaigns via continually-collected and recorded offer impression and redemption data. Additionally, banks and other financial institutions benefit by being able to offer their customers an additional outlet to accumulate rewards currency in the form in which their account(s) are currently enrolled. Such reward currencies drive customer loyalty and use of specific accounts, increase consumer transactions, and reduce attrition. For example, as consumers redeem offers, they build their rewards (e.g., airline miles, hotel points, cash back, etc.), and thus the consumers are more likely to continue using payment mechanisms (i.e., credit cards, debit cards, etc.) associated with the specific financial institution account. Finally, consumers benefit from embodiments of the present systems and methods because they receive cash and rewards merely by purchasing items they typically already purchase.

Referring now to FIG. 2, a high-level overview **200** is shown of one embodiment of the targeted marketing system (TMS) **215** and its associated environment. As shown, the TMS **215** includes an offer management system (OMS) **211** remotely connected (although the connection does not necessarily have to be remote) to one or more offer placement systems (OPS) **207** via the Internet **209**. Generally, the OMS **211** enables creation of targeted marketing campaigns, segments, and offers by advertisers, reporting of marketing data and campaign results to advertisers, transmission of data to and from one or more OPS's **207**, and other similar processes described herein. Generally, the OPS **207** enables matching of received campaign data from the OMS **211** with de-identified consumer transaction data received from financial institutions, injecting or merging targeted marketing offers into financial institution portals, organizing and transmitting redemption data to financial institutions for reimbursements to consumers,

transmission of data to and from the OMS, and other similar processes described herein. Although the OMS **211** and OPS **207** are represented in FIG. 2 as conceptual boxes, in one embodiment, both the OMS and each OPS comprise system components including one or more databases, memories, servers, computer readable media, processors,
5 algorithms, portals, and other similar components (see FIGS. 29–30 for further description of OMS and OPS hardware).

In the embodiment shown in FIG. 2, in addition to being remotely connected to the OMS **211**, the OPS **207** is directly connected to a financial institution system **205** to enable direct and secure communication of information back and forth between the OPS
10 and financial institution, as the OPS is protected behind the financial institution's existing firewall(s). As will be understood and appreciated, the financial institution may be a bank, credit card company, lending institution, savings & loan, prepaid debit company, or other similar financial institution. Additionally, although the embodiment of the TMS **215** shown in FIG. 2 includes only one OPS **207** and one financial institution system **205**,
15 other embodiments of the TMS include many OPS's connected to many different financial institutions. Generally, one OMS is capable of servicing a plurality of OPS's at a plurality of financial institutions. Further, according to one aspect, more than one OPS **207** is connected to each financial institution **205**. For example, an embodiment of the present system may be constructed such that a different OPS services each different
20 aspect of a financial institution's services (e.g., credit card account, bank account, money market account, stock brokerage needs, web services, transaction processes, etc.), or synchronized OPS's may reside in multiple data centers that serve customers to improve scalability and reliability. For ease of reference, however, the figures and discussion of the present disclosure are primarily directed to an exemplary system comprising only one
25 financial institution **205** and one OPS **207**.

Generally, most financial institutions employ a distributed architecture in which different entities within each financial institution may be located at different physical or virtual locations, and perform different services and functions for the overall financial institution system. Thus, the exemplary financial institution **205** shown in FIG. 1
30 illustrates two components—a financial institution web server **219** and a financial institution transaction processor **220**. The functions of the web server **219** generally

include, among other things, serving the financial institution portal (and its associated web pages, data, and other content) to consumers **103**. The functions of the financial institution transaction processor **220** include, among other things, tracking and storing consumer transactions data for subsequent use. The functions of each of these illustrated components **219** and **220** and their interaction with various OPS components is described in greater detail throughout this disclosure. Additionally, although most financial institutions include at least these two discrete components **219**, **220**, financial institution systems **205** are referred to generally in various parts of this disclosure for ease of reference.

10 According to the embodiment shown, all information or data passing between the OMS **211** and the OPS **207** is processed via a reverse proxy **217**, typically in conjunction with (but sometimes alternatively to) a demilitarized zone (DMZ), before the data is allowed to proceed (described in greater detail below). In one embodiment, the OPS **207** is directly connected to the financial institution system **205** in a manner such that various components of the OPS operate behind the financial institution firewall(s) and other security protections. Accordingly, in order to preserve the security of the overall system, ensure secure communications (e.g. via SSL), prevent system corruption, and retain consumer privacy, all data and information passing into or out of the OPS is processed within a reverse proxy located on the financial institution's web server **219** or similar equally secure means. Generally, embodiments of the reverse proxy **217** used within aspects of the present system comprise computers and/or processors acting as proxy servers to intercept and inspect all inbound and outbound communications between components on either side of the reverse proxy. When the reverse proxy identifies information being sent to or from the OMS **211** to the OPS **207**, the reverse proxy directs the information via the web server **219** to the OPS over the financial institution's internal network. Typically, the reverse proxy **117** (and/or DMZ) checks file types and formats, verifies that certain information or types of information is or is not present in the transmitted data, and performs other operations as described in greater detail below. Generally, each financial institution **205** defines the specifics and protocols associated with its respective reverse proxy **117** and/or DMZ, and thus data transmitted between each OPS **207** and the OMS **211** should comply with these protocols.

As shown in FIG. 2, an advertiser **213** (i.e., Pizza Pub) generates a targeted marketing campaign (TMC) within the OMS **211** via an OMS advertiser portal **900** (see FIG. 9 and its associated discussion for further details regarding the OMS advertiser portal). Before a campaign is created, de-identified consumer transaction data is transmitted from the financial institution's transaction processor **220** to the OPS **207**, which stores the data for subsequent use. This data is aggregated by the OPS and accessed by the OMS as needed for campaign generation. The financial or consumer transaction data is de-identified of any consumer- or account-identifying information via an internal financial institution de-identifying process and stored in a de-identified consumer transaction table (see FIG. 17 and its associated discussion). Each financial institution **205** that is connected to and utilizes aspects of the TMS **215** employs its own protocol for removing identifying information from consumer financial transactions. Such identifying information is removed to protect consumer privacy, maintain security, etc. Thus, the transactions data received by each OPS includes a plurality of financial transactions indicating merchants involved in the transactions, merchant types, spend amounts, dates, payment mechanism types, and other similar information. However, the information does not include specific consumer names, account numbers, or other identifying information.

The de-identified financial transaction data is aggregated in the OPS **211**, and accessed by the OMS for use in generation of TMCs and associated TMOs **113**. Generally, a TMC is an advertising campaign constructed by an advertiser **213**, advertising agency, or other entity designed to generate and place advertisements in the form of TMOs and display such TMOs to consumers **103** via the consumers' online financial institution portals. Each TMC typically includes one or more TMOs **113** related to the overall theme of the TMC. As an advertiser **213** creates a campaign and groups consumers into targeted consumer segments (TCS's), the aggregated transaction data provides an accurate estimate as to the number of consumers each TMO will reach based on the most recent de-identified consumer transaction data available across all OPS's in the TMS **215**. Thus, the advertiser **213** is able to modify the specifics of each TMO based on the size of the projected consumer segment associated with each offer (discussed in greater detail below).

Typically, the TMOs presented to consumers **103** within embodiments of the present TMS **215** are targeted based on purchases made by each consumer and related information associated with those purchase. When an advertiser **213** creates an offer, the advertiser typically defines a segment of consumers that will receive the offer based on
5 one or more transactions completed by the consumers. For example, an advertiser **213** may target an offer to consumers who spent a certain amount of money at a particular retailer during a given time period in a defined zip code. Advertisers can identify, based on aggregated consumer transaction data, approximately how many consumers the offer will reach. The advertisers, however, are unaware of any specific consumers that actually
10 receive or redeem the presented offers, as the advertisers are never given any specific consumer-identifying information.

Once a campaign, and its associated offers, is finalized by the advertiser **213**, the offers are stored in the OMS **211**, transmitted to each OPS **207** via each corresponding reverse proxy **217** (and/or DMZ), and then matched with actual consumer transactions or
15 OTEs that satisfy the offer criteria. The resulting matched offers are stored in the corresponding OPS for potential delivery to consumers. As each consumer **103** logs in to his or her specific account(s) via the respective online financial institution portal, the matched offers corresponding to transactions or OTEs are injected or merged into the graphical display of the consumer's financial institution portal, thus transforming the
20 conventional financial institution portal display into one that includes one or more TMOs (described in greater detail below).

In the example overview **200** shown in FIG. 2, a consumer **103** engages in a transaction with a merchant **101** (i.e., advertiser competitor Pizza King). For ease of reference, this transaction corresponds to the exemplary transaction discussed in
25 association with FIG. 1 and in other parts of this disclosure. Because this transaction satisfies one or more offers generated by an advertiser **213** via the OMS **211** (discussed in greater detail below), the transaction qualifies as an offer-qualifying purchase (OQP) **115**. As will be understood and appreciated, this transaction may have taken place either before or after the offer to which it will be matched was created. A record of the OQP
30 **115** is transmitted from the merchant **101** to the financial institution (typically, via a payment mechanism processor, such as a credit card reader), and identified and recorded

within the financial institution **205** (particularly, within the financial institution transaction processor system **220**) in a financial institution database along with numerous other transactions of the respective consumer **103**, as well as other consumers and clients of the financial institution. As will be understood and appreciated, in order for the

5 financial institution to identify and record the transaction, the OQP is completed via a payment mechanism associated with one of the consumer's accounts held at the financial institution, such as a credit card, debit card, prepaid card, gift card, paper check, wire transfer, or other similar payment vehicle, and is thus viewable via the consumer's online banking portal.

10 After the OQP **115** been recorded within the financial institution database, all consumer-identifying information is removed from the OQP (i.e., it is de-identified), it is then transmitted to the OPS **207** for storage in an OPS database and potential matching with TMOs **113**. As will be understood by one of ordinary skill in the art, the de-

15 identified transactions may be transmitted to the OPS on a continual basis, or batch processed and transmitted once daily, or transmitted via some other similar recurring transmission method. According to one embodiment, upon receiving the de-identified transactions, the OPS transmits all un-identified "raw" merchant names (i.e., those that cannot be recognized within the OPS's current database) to the OMS **211** in order to be

20 "cleansed," categorized, and validated via a merchant identification process (see FIG. 5 and its associated discussion). Those merchant names that are successfully associated with an existing validated merchant are returned to the respective OPS and subsequently stored within the OPS (e.g., in a validated merchant table, as discussed in association with FIG. 7).

The OPS **207** then performs a matching process between received TMOs and

25 received de-identified transactions to match TMOs to transactions that satisfy the criteria of the TMOs (see FIG. 15 and its associated discussion). After an offer is matched to a particular transaction (or a particular consumer's account), identifiers associated with both the offer and transaction (or account) are then stored in a matched offer table (see FIG. 18 and its associated discussion). According to one aspect, TMOs are matched to

30 OTEs, such as groupings of transactions by a consumer, and such matches are stored in an OPS database. As will be appreciated, some consumer transactions will not satisfy

any TMOs, and thus no offer is matched to or displayed with these transactions in the consumer's financial institution portal.

Still referring to the exemplary embodiment of the TMS **215** shown in FIG. 2 and in accordance with aspects of the present systems and methods, when a consumer **103** logs into his or her financial institution portal after the OQP **115** has been matched to an offer, the offer **113** is displayed to the consumer in perceptible association with the OQP. In one embodiment, the TMS **215** utilizes a JavaScript document object model (DOM) injection to inject matched offers into the graphical user interface (GUI) associated with the financial institution portal when the interface is displayed to the consumer (discussed in greater detail below). Using this method, a relatively minimal amount of software code (typically, only a few lines of JavaScript code) are input into the financial institution's online environment (i.e., webpage-rendering software code at web server **219**) that operates the financial institution's online portal. When executed, this JavaScript code calls a separate algorithm stored within an OPS **207** that merges the matched offers with their corresponding transactions or OTEs in the rendered financial institution webpage. Although a preferred embodiment of the present system **215** utilizes a DOM injection to perform this merging process, other embodiments are not limited to this particular method, and other similar methods may be used.

It is understood that banks and other financial institutions are typically wary of modifying their systems to add functionality provided by a third party. This wariness stems from concerns about compromising the security of the bank and the effort required to make even minor changes to these complex systems. Thus, by utilizing a DOM injection at the point of display of the portal to the consumer **103**, only a minimal amount of code is input into the financial institution's internal code, and advertisers **213** and other system operators of the TMS **215** have no access to the financial institution's code itself (or its data). Further, based on this minimally invasive insertion of a small amount of code into the financial institution's software, aspects of the TMS and financial institution system are able to operate independently of each other. Thus, if a problem occurs within the TMS, then the financial institution is able to operate in its conventional manner until the problem is rectified, and vice versa. Additionally, aspects of the TMS **215** may be updated or modified over time without requiring modification of the financial

institution's software, as the TMS code that is written into the financial institution's software is merely a call to a larger code base stored within each OPS **207**.

Still referring to FIG. 2, after a consumer **103** views a TMO **113** associated with the consumer's OQP **115**, the consumer may elect to redeem the TMO according to the TMO specifics. As shown, the consumer **103** redeems the TMO **113** with the advertiser via a redemption qualifying purchase (RQP) **117**. The RQP, in this example, is a payment of \$28.93 at an advertiser (i.e., Pizza Pub) location. For ease of reference, this RQP **117** corresponds to the exemplary RQP shown and discussed previously in conjunction with FIG. 1, and in other parts of this disclosure. A record of the RQP is transmitted to the financial institution **205** in much the same manner as the record of the OQP **115**. Again, the financial institution records the OQP and transmits it to the OPS **207**. In one embodiment, the OPS **207** then performs a redemption process to determine if the transaction completed by the consumer **103** satisfies any of the redemption criteria of the TMO(s) previously presented to the consumer (i.e., whether the transaction is in fact an OQP) (see FIG. 23 and its associated discussion for further details on this process).

If the consumer's transaction qualifies as a RQP **117** as stipulated by the TMO, then the OPS records the instance of that RQP within its respective offer redemption table and simultaneously calculates the type and amount of reward (i.e., ORP **225**) earned by the consumer. In the presented example, the account to which the consumer's RQP was charged had been associated with a "cash back" rewards program (as shown subsequently in this disclosure), and thus no further conversion is needed (as the advertiser had entered the reward value of TMO(s) in dollars). In the event an ORP requires conversion from cash into another type of reward (e.g., airline miles, points, etc.), the conversion is performed within the OPS based on each financial institution's specific conversion rate(s) for the account associated with the RQP. According to one embodiment, several transactions or a series of transactions must be completed by a consumer in order to qualify as an RQP (e.g., if an offer dictates three purchases at a particular advertiser must be made in a given time period). Or, in some embodiments, the reward is paid out over an extended time period (e.g., several months) if a consumer continues to make a particular type of purchase or stay enrolled in a particular club or program (e.g., a movie

rental membership). In one embodiment, the consumer **103** is notified of the ORP via an icon **119**, message, or some other indicator evidencing that an offer has been successfully redeemed (see FIG. 27 and its associated discussions for further details).

According to one aspect of the TMS **215**, financial institutions **205** are reimbursed
5 directly by advertisers via the TMS for the value of all rewards paid to consumers **103**. For example, advertiser may have pre-funded accounts within the TMS that are used to reimburse financial institutions for ORPs **225**. Or, in some embodiments, the TMS includes a general fund that is used to pay financial institutions, which is in turn compensated by advertisers **213** after the payments to consumers have been made.
10 Additionally, in one embodiment, advertisers pay the operator or operating entity of the TMS for the ability to create and deliver TMCs and subsequent TMOs to consumers (i.e., not just for reimbursement of reward value, but for privilege to use TMS functionality).

As will be understood and appreciated, advertiser creation of campaigns, segments, and offers, consumer redemption of those offers, transmission of data between
15 the OMS **211**, each OPS **207**, and each financial institution **205**, and other processes of embodiments of the TMS **215** shown and described in conjunction with FIG. 2, occur on a continual and ongoing basis. Further, over time, offer redemptions and/or impressions are tracked and recorded by each OPS **207**, and this data is transmitted (preferably, in aggregation) to the OMS **211** for reporting to advertisers **213**. In this way, advertisers are
20 able to determine the relative effectiveness of their campaigns, manage their return on investments (ROI), and adjust future campaigns and advertisements based on performance of previous campaigns and offers.

Additionally, in one embodiment, a system operator or manager has access to all TMS **215** components, and controls and manages overall TMS operations. The system
25 manager accesses the system via a management portal **2915** (see FIG. 29) to perform maintenance on the system, update or make changes to the system, and complete other management tasks.

Referring now to FIG. 3, the system architecture **300** for one embodiment of the disclosed targeted marketing system (TMS) **215** is shown. As shown, the architecture
30 **300** includes the OMS **211**, at least one OPS **207**, databases **305**, **307**, a plurality of firewalls **330**, at least one reverse proxy **217** and the Internet **209**. Additionally, the

overall system architecture **300** includes connections to one or more financial institutions **205** (including the institution's internal transaction processor(s) **220** and web server(s) **219**) and each institution's associated database(s) **309**. As will be understood, although only one OPS **207** and one financial institution **205** are shown in the embodiment of FIG. 3, other embodiments include a plurality of OPS's **207** and a plurality of financial institutions **205**. Further, as will be appreciated, although only one database is shown each for the OMS, OPS, and the financial institution, embodiments of the present TMS **215** utilize many databases to store system information as needed. In one embodiment, more than one OMS **211** is utilized to perform the campaign creation and management functions of the system. Aspects of the internal hardware components associated with each OMS and OPS are shown and discussed in conjunction with FIGS. 29–30.

According to a preferred embodiment, the OMS **211**, OPS **207**, and financial institution **205**, and their respective components, communicate with each other via a conventional service-oriented architecture (SOA). Generally, a service-oriented architecture is an information technology infrastructure that allows different applications to exchange data with one another. Typically, a SOA separates functions into distinct units or services, which are made accessible over a network (such as the Internet), such that users of the system can combine and reuse them as desired. As will be understood, the communication protocol between the system components shown in FIG. 3 may vary depending upon each financial institution's preferred communication technique, and other similar file transfer mechanisms may be used according to embodiments of the present system.

In the embodiment shown in FIG. 3, the internal components (i.e., processor(s), memory(ies), etc.) of the OMS and OPS are represented by blocks **211** and **207**, respectively (see FIGS. 29–30 for more detailed representations). Also included as part of the OMS and OPS are OMS database **305** and OPS database **307**, respectively. The OMS database **305** stores data and other information used in the generation of targeted marketing campaigns (TMCs), analysis of campaign performance, and other similar OMS processes. In one embodiment, the OMS database **305** includes a campaign table **1100**, segment table **1200**, and offer table **1300** (described in greater detail below) for storing campaign- and advertising-related data (collectively referred to as “campaign data” **315**).

Preferably, the OMS database also includes a local instance of campaign results data **301** (discussed below), such as that shown in a campaign results table **2600**. In one embodiment, the OMS database also includes a merchant identification table **600** for storing data and information used in the cleansing and categorization of merchant names.

5 The OPS database **307** stores data and other information used in matching TMOs to transactions or offer-triggering events (OTEs), displaying such TMOs to consumers, recording redemptions of TMOs, and other similar OPS processes. In one embodiment, the OPS database **307** includes a de-identified consumer transaction table **1700**, matched offer table **1800**, and campaign results data **301** (represented by the offer impression table
10 **2400** and offer redemption table **2500** (described in greater detail below)) for storing data relating to matched transactions and offers, redeemed offers, etc. According to one embodiment, the OPS database also includes a validated merchant table **700** which effectively serves as a repository for data required to match “raw” merchant names originating from a payment mechanism processor (e.g., credit card reader) to validated
15 (i.e., “normalized”) merchant names suitable for matching offers and redemptions (discussed in greater detail below).

 Additionally, within the financial institution **205** is at least one financial institution database **309** for storing consumer transaction information. In one embodiment, the financial institution database **309** includes a master consumer
20 transactions table **1600** for storing all consumer transactions recorded within the financial institution. Additionally, in one embodiment, the financial institution database stores an instance of de-identified consumer transaction table **1700** (not shown) for subsequent transmission to the OPS. As will be understood and appreciated by one of ordinary skill in the art, consumer transactions that have not been de-identified (i.e., those in
25 transactions table **1600**) remain within the financial institution database, and are unavailable to components of the TMS. As will be further understood, embodiments of the present TMS **215** are not limited to the specific tables mentioned in association with the databases **305**, **307**, **309**, as other tables and data necessary for successful operation of the TMS as will occur to one of ordinary skill in the art are included as well.

30 As will be understood and appreciated, the various components of aspects of the TMS (i.e., the OMS **211** and each OPS **207**) and each financial institution **205** must share

data in order to carry out their respective functions. However, different protocols exist for sharing data depending on the data type. Importantly, even though it is stripped of consumer-identifying information, de-identified consumer transaction data never leaves the OPS (for purposes of regulatory compliance and consumer privacy concerns). Thus, when the OMS requires consumer transaction data for campaign generation, the OMS makes a query into the OPS, and the OPS returns an aggregated total of consumers and/or transactions associated with the particular request. For example, as an advertiser creates a particular segment, the OMS requests from the OPS the total number of consumers or transactions that satisfy the segment, and the OPS returns such an aggregated total (and, in one embodiment, the aggregated purchase histories of the consumers at a merchant or merchant group associated with the segment). However, no specific de-identified transactions ever leave the OPS. For other, less sensitive types of data, similar access calls are made between system components. Or, according to another embodiment, although data tables may be generated and stored within one system component (e.g., campaign data **315** is typically generated within the OMS), instances of the data tables are transmitted to other system components as needed and cached locally for subsequent use (i.e., “master” v. “local” tables). Again, however, de-identified consumer transaction data is retained within the OPS behind the financial institution’s security components.

As shown in FIG. 3, communications between the OMS **211** and OPS **207** pass through one or more firewalls **330**, as well as reverse proxy **217**. Generally, each firewall is an integrated collection of security measures designed to prevent unauthorized electronic access to its associated, networked computer system. Depending on the particular financial institution **205**, each firewall is a dedicated appliance or software that inspects network traffic passing through it and denies or permits access to network components based on a set of predefined rules. Often, based on heightened security measures typically associated with financial institutions **205**, each institution has multiple firewalls, and various distributed components within the institution are located behind varying levels of security (discussed below). In one embodiment, the OMS **211** also includes a firewall **330a** to inspect data and information passed to and from it over the Internet **209**. As will be understood, each firewall is configured according to financial institution or system administrator protocols.

According to the embodiment shown, both the financial institution **205** and the OPS **207** utilize distributed architectures with disparate components residing behind varying firewalls **330b–c** (i.e., security levels) for performing functions that require varying levels of security. As shown, an initial firewall **330b** separates the Internet **209** (and, thus, external components, such as the OMS **211**) from the financial institution web server **219**, the OPS application components **207**, and the reverse proxy **217**. The area including these components is generally referred to as a demilitarized zone (DMZ) (also referred to as a “demarcation zone” or “perimeter network”), which is defined elsewhere herein. Some embodiments of the present system utilize a DMZ in addition to or in lieu of a reverse proxy to provide additional or alternate security measures. The financial institution web server **219** and OPS sever **207** that reside in the DMZ generally perform the functions of serving web page content to consumers **103**, injecting offers into the served web pages, and other similar functions. Behind a second firewall **330c** with enhanced security measures reside the financial institution transaction processor **220**, financial institution database **309**, and OPS database **307**. Generally, these components are included behind an additional security layer because they store sensitive consumer information and conduct secure processes, such as matching offers to consumer transaction data, etc. As will be understood, the architecture shown in FIG. 3 is exemplary only, and various financial institutions **205** employ varying architectures and security measures depending on the institution’s preferences.

According to a preferred embodiment, in addition to one or more firewalls, a reverse proxy **217** is utilized to provide an extra layer of security to each financial institution’s local area network (LAN). In one embodiment, the reverse proxy **217** comprises computers and/or processors acting as proxy servers to intercept and inspect all inbound and outbound communications between components on either side of the reverse proxy (in this case, the OPS **207** (in conjunction with the financial institution **205**) and the OMS **211**). In the embodiment shown, the OPS **207** operates behind both the reverse proxy and the financial institution firewall(s), such that the financial institution and the OPS have a direct communication link (ad described above). In this manner, any information or data passing into or out of the OPS (specifically, from the OMS) is subject to the same layers of protection and security as required by the financial institution.

Because of these security components present between the OPS **207** and the OMS **211** (and Internet **209**, etc.), embodiments of the TMS **215** are able to operate in compliance with financial institution regulatory guidelines.

5 **Offer Management System (OMS)**

As described previously, embodiments of the offer management system (OMS) **211** enable advertiser creation of targeted marketing campaigns (TMCs), targeted consumer segments (TCS's), and targeted marketing offers (TMOs), cleansing, categorization, and validation of unidentified merchant names, reporting of marketing data and campaign results to advertisers, transmission of data to and from one or more offer placement systems (OPS's), and other similar processes. Because TMCs are created via the OMS and then transmitted to individual OPS's installed at separate financial institutions, advertisers are able to create TMCs that are presented across a plurality of financial institutions. Further, because each OPS matches the TMCs to consumer transactions within each financial institution, advertisers are able to market and advertise to consumers based on actual consumer purchase behavior without compromising the privacy or security of the consumer's transaction data. Details and specific functionality associated with the OMS and its processes will now be further described.

20 FIG. 4 is a flowchart **400** illustrating the overall processes and functions performed by the OMS **211** according to one embodiment of the present TMS **215**. As will be understood and appreciated, the steps of the process **400** shown in FIG. 4 are not necessarily completed in the order shown, and the processes of the OMS operate concurrently and continuously. Accordingly, the steps shown in FIG. 4 are generally asynchronous and independent, computer-implemented, tied to a particular machine (the OMS **211** of a TMS **215**), and not necessarily performed in the order shown. As shown, one of the OMS processes includes the campaign generation process **1000** to generate targeted marketing campaigns, whereby campaigns are created based on advertiser-entered campaign specifics (described in greater detail below in conjunction with FIGS. 8 and 10). During the process **1000**, in response to advertiser creation of targeted consumer segments, the OMS requests segment population totals (i.e., the number of consumers

associated with a particular advertiser-defined segment based on de-identified consumer transactions) from each OPS **207** to assist advertisers in campaign creation (step **401**). Once received by the OMS, the population totals are aggregated to provide a sum of all consumers (and their associated transactions) eligible to receive a TMO associated with a segment or segments to help advertisers determine the scope of their campaigns (step **403**).

Although the segment population request step **401** and segment population receipt step **403** are shown in FIG. 4 as associated with the OMS process **400**, such steps may also be viewed as being a part of the campaign generation process **1000**, but are shown and described in FIG. 4 in connection with the operations of the OMS for ease of understanding and clarity.

Other processes associated with generation of campaigns is described in greater detail below. After a campaign has been created, the campaign data **315** (including campaign, segment, and offer information) is transmitted to each OPS **207** via one or more reverse proxies **217** for further processing and display to consumers **103** (step **405**).

After a TMC's completion (or during its operation), an advertiser may desire to view and analyze results of the campaign (e.g., number of consumers that have viewed offers associated with the TMC, number of offers redeemed, specific competitor locations of redeemed offers, etc.). Thus, in response to an advertiser query, the OMS requests campaign results data from each OPS (step **407**). Upon receiving the request, embodiments of each OPS **207** will collect and transmit aggregated campaign results data **301** to the OMS **211** for advertiser review (step **409**). In one embodiment, the campaign results data is displayed to advertisers via an OMS advertiser portal **900** in the form of statistics, graphs, charts, percentages, or other similar conventional reporting formats (discussed in greater detail below).

Also included in the overall OMS processes **400** is the merchant identification process **500**, in which unidentified merchant names are analyzed and identified (if possible) for subsequent use (described in greater detail below in conjunction with FIG. 5). Based on local card processing systems, naming conventions, and other factors, merchant names associated with consumer transactions are often sent from merchants to a given financial institution (and subsequently to an associated OPS) in several different

formats, even though each represents (and is associated with) the same merchant. For example, prior to being “cleansed” within the OMS **211**, hypothetical merchant **101** Pizza King may be represented as “PK #29483”, “Pizza K”, “P. King Inc”, and/or numerous other variations within the transaction data received by the financial institution **205** (and eventually sent to its OPS(‘s) **207**). Accordingly, in order for the present system to recognize name variations as corresponding to a single merchant entity for purposes of matching consumer transactions to offers, initiating payment of redemptions based on RQPs, and other processes as described herein, each name should preferably be identified and categorized according to an existing, validated merchant name.

FIG. 5 is a flowchart of an embodiment of a computer-implemented merchant identification process **500** carried out by a particular machine (e.g. OMS **211**) for identifying and “cleansing” (i.e., normalizing) unidentified merchant names received from an OPS **207**. As mentioned, because merchant names in transaction data may comprise a variety of formats, even though the names all represent or are associated with a single merchant **101**, the names should be identified and linked to that merchant for a variety of purposes (described above). For many merchant names associated with consumer transactions, an OPS is able to clearly identify the merchant associated with a given name (e.g., because the particular name format corresponds to a previously-identified name from previous transactions), and thus the name is never transferred to the OMS for identification. For others, however, the merchant name must be identified before further transaction processing, matching, etc., can occur.

Starting at step **501**, a request for unidentified merchant names is transmitted from the OMS **211** to one or more OPS’s **207**. At step **503**, the OMS verifies whether any unidentified merchant data was received from an OPS. If unidentified merchant data was received, then such data is stored within the OMS database **305** or in an OMS local memory, and a predetermined merchant identification algorithm is performed utilizing the received data to identify corresponding merchant names (described below) (step **505**). If no merchant data (i.e., names) is received, then the OMS again requests data from the OPS (step **501**). As will be understood, steps **501** and **503** are performed on a looping basis to continually request or check for incoming merchant name data. In alternative embodiments, the OMS requests data from the OPS periodically (e.g., hourly, daily, etc.),

or at the specific request of a system operator, or via some other protocol as will occur to one of ordinary skill in the art. In a further embodiment, rather than a request for unidentified merchant names being transmitted from the OMS to an OPS, the OPS automatically transmits unidentified merchant names to the OMS as discovered within
5 transaction data.

Once the requested unidentified merchant names are received, a predetermined merchant identification algorithm interprets data fields (i.e., cleanses or “scrubs” the data) within the names in order to effectively identify the merchant associated with each merchant name (step **505**). According to one embodiment, the predetermined algorithm
10 first removes all non-alphabetic data from the unidentified merchant name before then comparing the result against a stored list of previously-validated merchant names. According to various embodiments, the stored list comprises predefined names entered by a system operator as corresponding to particular merchants, names that were previously validated via the merchant identification process **500**, common variants or
15 patterns in name formats recognized across all unidentified merchant names, and/or other names as will occur to one having ordinary skill in the art. Based on the comparison to the stored list, each unidentified merchant name is assigned an identity assurance score or rating relative to a valid merchant name to which it is most likely associated. Generally, the identity assurance rating comprises a percentage-based measure of the likelihood that
20 a given unidentified merchant name is associated with an existing valid merchant name. As will be understood, the identity assurance rating for a given unidentified merchant name can be calculated according to a number of factors, such as the percentage of alphabetic characters that match a name on the stored list of names, or based on particular word matches or ordering of characters, etc. After an identity assurance score is
25 calculated for each unidentified merchant name, each name is stored in a merchant identification table **600** for further processing (discussed in greater detail below in conjunction with FIGS. 6 and 7).

Once an unidentified merchant name receives an identity assurance score, the name is classified as either “validated” (i.e., identified or recognized) or “un-validated”
30 based on the assurance score. According to one embodiment, a system operator defines a threshold assurance score (e.g., 80%, 90%, 100%, etc.) that must be met in order to

classify a merchant name as “validated.” At step **507**, the process **500** determines whether a given merchant name was identified (i.e., validated) or not. Generally, unidentified merchant names receiving an identity assurance score above the predefined threshold are deemed to have an association with an existing valid merchant name, and thus require no further identification efforts (i.e., they are deemed “validated”). If an unidentified merchant name receives an identity assurance score below the predefined threshold, an optional manual identification process is typically initiated (step **509**). In some embodiments, however, rather than manually identifying merchant names, the unidentified names are simply discarded, and the transactions associated with those names are made unavailable for offer matching and other functions.

Still referring to FIG. 5, one embodiment of the manual identification process comprises manual review by a system operator of each unidentified merchant name, whereby the operator makes a “best guess” to either classify the name according to a known (i.e., validated) merchant name, or label it as “un-validated.” In another embodiment, the manual identification process comprises an electronic search according to a predetermined algorithm of existing and readily available resources (e.g., online databases or Internet search) in an attempt to effectively identify the merchant name. If, through the manual identification process, an unidentified merchant name is successfully identified, the merchant name is given “validated” status. If a name cannot be identified via the manual process, then the name is discarded, and the transactions associated with the name are made unavailable for matching and other functions.

Upon completion of both the predetermined and manual identification processes (steps **505** and **509**), the now validated merchant names are stored within a validated merchant table **700** in the OMS database (step **511**) (discussed in greater detail below in conjunction with FIG. 7). According to one embodiment, only validated merchant names stored within the validated merchant table **700** are transmitted to each OPS for subsequent processing (step **513**).

FIG. 6 is an exemplary merchant identification table **600** illustrating data associated with unidentified merchant names utilized or generated during the merchant identification process **500**. FIG. 7 is an exemplary validated merchant table **700** illustrating data associated with validated merchant names. In the embodiment shown,

tables **600** and **700** include identical data categories or fields, except that table **700** includes only merchant names that were officially validated via the merchant identification process **500** (e.g., because their identity assurance score exceeded a predetermined threshold). As will be understood by one having ordinary skill in the art, tables **600**, **700** are presented for illustrative purposes only, and embodiments of the present system **215** are not limited to use of the specific data tables shown.

As shown, the tables **600**, **700** each include six data categories or fields: unidentified merchant key **601**, unidentified merchant name **603**, validated merchant key **605**, validated merchant name **607**, merchant category **609**, and identity assurance rating **611**. As will be understood, however, the data categories or fields are not limited to the fields shown, and other embodiments include additional fields as will occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in table **600** (i.e., entries corresponding to unidentified merchant keys 349, 103, 184, etc.), and three data fields are shown in table **700** (i.e., entries corresponding to unidentified merchant keys 349, 785, 293), actual data tables constructed in accordance with aspects of the present system may include a virtually unlimited number of entries corresponding to a plurality of merchant names processed by embodiments of the present TMS **215**.

As shown, the unidentified merchant key field **601** indicates a unique identifier generated by an embodiment of the TMS **215** and assigned to each unidentified merchant name received from an OPS (i.e., previously extracted from consumer transaction data). Although the unidentified merchant keys are illustrated as 3-digit numbers, it will be appreciated that these unique identifiers may comprise many formats, including number strings of longer length, hexadecimal identifiers, binary identifiers, and the like. The unidentified merchant name field **603** indicates the specific merchant name extracted from a given consumer transaction. The validated merchant key field **605** indicates an identifier that corresponds to a validated merchant name (shown in field **607**) to which the unidentified merchant name is likely associated (based on the identification process **500**). For example, exemplary unidentified merchant keys 103 and 184 correspond to unidentified merchant names “SKATE ESCP” and “S ESCAPE HOUSTON”, respectively. Based on the merchant identification process, the system has determined

that both of these entries likely represent merchant "SKATE ESCAPE", which has validated merchant key 23. Similarly to the unidentified merchant keys, the validated merchant keys may comprise many formats, and are not limited to the specific 2-digit format shown.

5 Still referring to FIGS. 6 and 7, the merchant category field **609** indicates the category or categories assigned to each validated merchant name. As described herein, merchant category information is used primarily for purposes of defining targeted consumer segments, although other uses are possible. According to one embodiment, each validated merchant name is associated with only one merchant category. In
10 alternate embodiments, however, merchants are associated with a plurality of categories as apply to their particular businesses. Generally, merchants are categorized according to conventional industry codes as defined by a selected external source (e.g., a merchant category code (MCC), HooversTM, the North American Industry Classification System (NAICS), etc.). However, in one embodiment, merchant categories are assigned based
15 on system operator preferences, or some other similar categorization process.

The identity assurance rating field **611** indicates the identity assurance score calculated for each unidentified merchant name (as described previously in conjunction with FIG. 5). As shown, the entries corresponding to unidentified merchant keys **103** and **184** are not included in table **700**, indicating that their respective identity assurance
20 ratings (90% and 70% , respectively) were below the predefined threshold for the shown embodiment. Thus, the transactions associated with those unidentified merchant names will be unavailable for subsequent OPS processes. Representative merchant name entry **613** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

25 Referring now to FIG. 8, a flowchart is shown illustrating a campaign generation process **800** from the perspective of an advertiser **213** according to an embodiment of the present targeted marketing system **215**. Such steps are generally computer-implemented, and tied to the operations of a particular machine (OMS **211**), but are herein described from the perspective of the advertiser to enable a person skilled in the art of computer
30 programming to construct a suitable computer-implemented user interface. Generally, a

campaign comprises one or more targeted marketing offers which can be delivered to one or more targeted consumer segments. In one embodiment, however, rather than creating an overarching campaign, an advertiser simply creates a singular offer for delivery to consumers (discussed in greater detail below). Additionally, the process **800** shown in
5 FIG. 8 merely represents one path to creating and/or editing campaigns, segments, and offers, and other paths are possible within embodiments of the present system (e.g., defining offer specifics before or simultaneously with campaign specifics).

As shown in FIG. 8, at step **801**, an advertiser **213** logs into the OMS advertiser portal **900** to begin creation of a campaign. FIG. 9 illustrates an exemplary OMS
10 advertiser portal **900** that is displayed to an advertiser during the operations of the campaign generation process **800** in accordance with aspects of the claimed invention(s). As will be understood and appreciated, the person that physically creates the campaign may be an employee of the advertiser (e.g., a member of the marketing team), or a member of an advertisement agency, or some other third party with authorization to
15 create campaigns on behalf of the advertiser. At step **803**, the advertiser **213** decides whether he or she is creating a new campaign, or accessing and editing a preexisting (prestored) campaign. If it is a new campaign, the advertiser defines the campaign specifics (e.g., the name of the campaign, the start and end date of the campaign, etc.) (step **807**). If, however, the advertiser is accessing a preexisting (prestored) campaign,
20 then the advertiser selects the particular campaign from a list of the advertiser's stored campaigns via the OMS advertiser portal **900** (step **805**). Once selected, the advertiser **213** either confirms the preexisting campaign specifics, or edits the specifics and saves (stores) the changes to the campaign (step **807**). Exemplary campaign data is illustrated in table **1100** shown in FIG. 11.

25 After a campaign has been created or accessed, the advertiser **213** decides whether he or she wishes to create a new consumer segment, or access a preexisting (prestored) segment associated with the campaign (step **809**). Generally, a segment defines a particular group of consumers **103** that will receive offers based on the transactions completed by the consumers. Regardless of whether an advertiser **213**
30 creates a new segment, or accesses a preexisting segment from a list of stored segments (step **811**), the advertiser defines the segment by a dimension (again, via the OMS

advertiser portal **900**) (step **813**). If it is a preexisting segment, the advertiser may simply confirm the dimension or dimensions associated with the segment.

As defined previously herein, a “dimension” refers to a delineating category that serves to narrow the population of consumers that may receive an offer associated with the segment based on criteria associated with specific consumer transactions. Examples of dimensions include the location of the transaction (e.g., zip code(s), city(ies), etc.), the merchant (e.g., Pizza King) or merchant type (e.g., restaurants) with which the transaction was completed, the amount spent, the specific category of items purchased, the payment mechanism associated with the transaction, etc. According to one embodiment, segments (and their associated dimensions) are used to identify and target consumers based not on specific consumer transactions, but on patterns and trends associated with transactions over time (e.g., consumers with high volumes of transactions at health food stores). After the advertiser has defined the segment by at least one dimension, the advertiser is queried as to whether he or she wishes to further define the segment (step **815**). If so, steps **813** and **815** are repeated until the segment has been completely defined to the advertiser’s satisfaction. If not, the segment is saved (stored), and the advertiser **213** moves forward in the campaign generation process **800**. Exemplary segment data is illustrated in table **1200** shown in FIG. 12.

Still referring to FIG. 8, once at least one segment has been defined or accessed by an advertiser **213**, the advertiser either creates a new offer associated with the segment, or accesses a preexisting (prestored) offer from a list of stored offers (step **817**) and assigns it to a respective segment. Typically, a TMO **113** defines an offer for a reward if the consumer **103** completes some subsequent, redemption-qualifying purchase (RQP) **117** or series of purchases with the advertiser **213**. For example, an offer may dictate that the consumer will receive \$10 off any purchase over \$25 made at an advertiser location in the month of June. Often, the offer may include an advertiser logo or advertising statement, such as “Pizza Pub voted country’s best breadsticks!”. In one embodiment, however, rather than an offer in which consumers are offered a reward for completing a RQP **117**, the offer is purely an advertisement for the advertiser **213** (i.e., the “offer” does not necessarily have to include an associated consumer reward). For example, the offer may simply comprise the statement: “Pizza Pub voted country’s best

breadsticks!”, with no corresponding reward offer. As will be understood and appreciated, a plurality of offer specifics (i.e., offer defining information) may be defined by advertisers **213** according to embodiments of the present TMS **215**.

Regardless of the offer specifics, these specifics are defined at step **821**. If a preexisting offer was selected (step **819**), the advertiser **213** either confirms or edits preexisting specifics, or defines new specifics. After at least one offer specific has been defined, the advertiser is queried as to whether he or she wishes to further define the offer **113** (step **823**). If so, steps **821** and **823** are repeated until the offer has been completely defined to the advertiser’s satisfaction. If not, the offer is saved (stored), and the advertiser moves forward in the campaign creation process **800**. Exemplary offer data is illustrated in table **1300** shown in FIG. 13.

At step **825**, the advertiser **213** decides whether he or she wishes to “publish” the campaign. If not, the campaign creation process **800** is ended, and the generated campaign is stored for subsequent use. If, however, the advertiser does choose to publish the campaign, then the publish process is initiated **827**. Generally, the publication process is initiated once the advertiser is completely satisfied with the campaign and its associated offer(s), and is ready to deliver the offers to consumers **103**. In one embodiment, the publish process comprises transmitting the finalized campaign, segment, and offer data to each OPS **207**, wherein the data is analyzed and verified by each financial institution **205** and/or a system operator according to each institution’s protocols. Essentially, the offers are screened to ensure that they comply with the financial institution’s specifications (e.g., the formatting is compliant, they do not contain explicit or offending material, etc.), as well as advertising regulations and practices. Once the financial institution is satisfied with the content and format of the campaign, the associated offers are matched to qualifying transactions and delivered to consumers (described in greater detail below). According to one aspect, an advertiser **213** may elect to create and store several offers associated with a campaign, and then publish the campaign (and its associated offers) all at once. In another aspect, offers are published individually.

Another aspect of embodiments of the campaign generation process **800** is the “dynamic resegmentation” process (not shown). As used herein, “dynamic

resegmentation” refers to the process of automatically delivering follow-up TMOs to consumers that redeem original or initial TMOs. In one embodiment, during the campaign generation process **800**, after offers have been defined, advertisers have the option to define a follow-up offer that is automatically presented to a consumer that
5 redeems an initial offer. The typical goal, from the advertiser’s perspective, is to entice the consumer to purchase the advertiser’s goods and/or services more than once in the hopes of obtaining the consumer as a repeat and loyal customer.

As mentioned previously, in one embodiment, campaigns, segments, and offers are created within the OMS **211** via an OMS advertiser portal **900**. FIG. 9 illustrates an
10 exemplary screen shot of a graphical user interface (GUI) associated with an embodiment of the OMS advertiser portal **900**. Through this portal, advertisers **213** perform the functions of campaign, segment, and offer creation, campaign management, campaign reporting and analysis, billing, and other similar OMS processes. As will be understood and appreciated, the GUI shown in FIG. 9 is presented for illustrative purposes only, and
15 other formats and displays of GUIs are used in other embodiments of the present TMS **215**.

The portal display **900** shown in FIG. 9 is a representative display for and on behalf of hypothetical advertiser, Pizza Pub, a user of the TMS **215**. As shown, the portal display includes a “Campaign Menu” section or display region **903**, a “My Campaigns”
20 section **905**, a “Manage Segments” section **907**, a “Manage Offers” section **921**, and an estimated population display section **901**. As will be understood and appreciated, other sections and fields in addition to those specifically listed and shown in FIG. 9 are possible according to other embodiments of the present system.

As shown, the “Campaign Menu” section **903** is a conventional GUI menu that
25 enables management of TMCs and basic campaign-related functions, such as creating new TMCs, editing existing TMCs, saving and discarding TMCs, and retrieving help or support information. The “My Campaigns” section **905** illustrates folders including the advertiser’s stored campaigns from each month. As will be understood, campaigns may be listed according to date, merchant or competitor name, merchant or advertiser
30 category, etc., and are not limited to display according to the month or months to which the campaigns pertain (as shown in FIG. 9). In the embodiment shown, the “My

Campaigns” section **905** comprises a conventional hierarchical display, wherein a representative campaign (i.e., “Pizza King”) is shown as selected. As will be appreciated, TMCs are named according to each advertiser’s preferences, typically based on the overall theme of the campaign. For example, the illustrative campaign is targeted to
5 customers of advertiser competitor **101** Pizza King, and thus the campaign has been named “Pizza King”. Because this particular campaign has been selected from the advertiser’s library of campaigns, the TCS’s and TMOs illustrated in the “Manage Segments” and “Manage Offers” sections **907**, **921**, respectively, coincide with the selected “Pizza King” campaign.

10 Although not shown, each campaign generally includes a start date and end date. In one embodiment, campaign delimiting information such as a campaign name, start date, end date, etc., are defined via conventional data entry fields within the OMS advertiser portal (not shown). The start and end date associated with a campaign typically defines when a campaign runs (i.e., when transactions are monitored to
15 determine satisfaction of segment and offer specifics, discussed below), but other significance may be assigned to the start and end dates, as will occur to one having ordinary skill in the art.

In the embodiment shown, the “Manage Segments” section **907** is the interface in the portal display **900** through which TCS’s are created and/or edited. As will be
20 understood, the representative dimensions **911**, **913**, **915** are presented merely for illustrative purposes, and embodiments of the TMS **215** are not limited to the specific dimensions shown. In “Segment Name” field **909**, an advertiser defines a name for a new segment, or accesses the system to retrieve a previously-created segment from a drop down menu associated with field **909**. For example, the name of the selected segment
25 shown in FIG. 9 is “Pizza King (CA)”, likely indicating a segment targeted to consumers of Pizza King stores in California. In the “Location(s)” field **911**, the advertiser defines the location of consumers (and specifically, consumer transactions) to which TMOs will be targeted. In one embodiment, the “Location(s)” field **911** defines the physical location in which consumer transactions occurred. In another embodiment, however, the
30 “Location(s)” field defines the location of the billing address associated with a consumer account held at a financial institution **205**. As will be understood, the “Location(s)”

dimension, as well as all other dimensions, may be defined according to advertiser and/or system operator preferences. Additionally, in various embodiments, locations are represented by zip or postal codes, cities, states, and other similar geographical indicia.

Still referring to FIG. 9, in the “Merchant(s)” field **913**, the advertiser identifies the merchant or advertiser competitor(s) **101** with which transactions or purchases were (or will be) completed. In one embodiment, specific merchants are identified via a pre-populated list in the “Merchant(s)” field **913**. In other embodiments, however, general business categories are defined (e.g., retail, home repair, entertainment, sporting goods stores, etc.). In the “Spend Amount” field **915**, a minimum amount is defined that a consumer **103** must have spent in order to qualify for and receive a TMO associated with the defined segment. According to one embodiment, the spend amount applies only to a single consumer transaction. In another embodiment, however, the spend amount is an aggregated total of a particular consumer’s transactions over a given time period that satisfy the other, defined dimensions associated with the segment.

As mentioned, the specific dimensions shown (**911, 913, 915**) are presented for illustrative purposes only, and other similar dimensions, such as specific items purchased, overall number of transactions completed by each consumer, average number of transactions completed by each consumer in a given time period, payment mechanism used, types of merchants (e.g., luxury, discount, health and beauty, etc.) either shopped or not shopped during a given time period, etc., are utilized according to various embodiments of the present TMS **215**. Additionally, according to one aspect, segments are defined that include as few as one dimension. For example, an advertiser **213** may elect to deliver TMOs to all consumers **103** that engage in transactions with a particular merchant **101**, regardless of the location of the transaction, the spend amount, etc. Further, some segments may be directed to the advertiser’s current customers (as opposed to consumers of competitors) in order to reinforce consumer loyalty.

Still referring to the “Manage Segments” section **907**, the time period fields **912** define time periods in which the respective dimensions are applied. According to various embodiments, the time period may be absolute (e.g., purchases made in August 2008) or relative to a present date of the campaign (and its associated segments and offers). For example, if an advertiser is working to create a campaign on June 1 in a given year, and

the time period **912** for a particular dimension dictates transactions in the last 30 days, then any consumers performing transactions occurring within 30 days prior to June 1 (i.e., May 2 – May 31) are subject to the respective dimension, and thus will be reflected in the “Est. Segment Population” field **919** (discussed below). As will be understood, the
5 time periods **912** may indicate any time period defined by an advertiser or system operator as will occur to one of ordinary skill in the art.

According to one embodiment, the time period fields **912** dictate time periods in which consumer transactions are monitored or aggregated to analyze consumer spending habits. For example, an advertiser **213** may wish to create an offer-triggering event
10 (OTE) associated with a segment of consumers that complete more than 5 transactions with a given merchant **101** over a predefined time period. Or, an advertiser may define a segment of consumers to receive offers that had a total spend amount above a predetermined threshold over a given time period. Accordingly, the advertiser is able to associate OTEs with segments of consumers based not on individual transactions, but on
15 patterns of transactions over time.

As dimensions are defined by an advertiser **213** for a given segment, the “Est. Segment Population” field **919** displays an estimated total number of consumers **103** that will receive offers associated with the given segment. Generally, the “Est. Segment Population” field **919** refreshes to display an updated number of potential consumers each
20 time a new dimension is defined by the advertiser, or each time a time period field **912** is adjusted. Accordingly, the advertiser is able to narrow or enlarge the scope of the consumer segment by adding, narrowing, or removing dimension specifics in order to achieve a desired number of consumers to receive offers. According to one embodiment, each time a segment dimension is defined, or a time period field adjusted, the OMS **211**
25 queries each OPS **207** for aggregated consumer transaction information, and the OPS returns an aggregated population of consumers that satisfy the segment (based on the consumers’ de-identified transactions stored in each OPS database **307**). In the exemplary portal display **900** shown in FIG. 9, approximately 3,245 consumers are estimated to be eligible to receive an offer associated with the given segment based on
30 the dimensions as defined.

As mentioned, the estimated number of consumers shown in field **919** is determined based on the aggregated de-identified consumer transaction data received/accessed from each OPS **207**. If the advertiser **213** feels that the estimated number of consumers **103** is too high, but the advertiser does not want to vary the segment dimensions, a “Target Ratio” can be defined in “target ratio” field **917**. For example, an advertiser is able to elect to deliver offers to a random percentage of consumers within a given segment (e.g., only 30% of consumers in a segment will receive a TMO). Additionally, according to one embodiment, the system is preconfigured to reject or block segments that carve out an exceedingly narrow scope of consumers. For example, if an estimated consumer population associated with a given segment falls below 300 consumers, then the system indicates to the advertiser that it must broaden the segment in order to proceed. The purpose of a preconfigured minimum segment population is to enhance consumer privacy and prevent segments from becoming too narrow (i.e., enabling an advertiser to identify actual consumers based on overly specific segments). As will be understood, the preconfigured minimum segment population may be set at any number that a system operator desires.

As segments are defined, estimated population display field **901** provides a graphical display of consumers in a given segment. As shown, customer universe icon **937** represents the entire population of consumers available for targeting as a function of the particular financial institution(s) **205** connected to the TMS **215**. In one embodiment, this total number of consumers is displayed when the advertiser **213** interacts with the icon **937** by hovering a cursor over the icon (i.e., “mouse over”), or clicking on the icon, etc. Segment display field **939** identifies the currently selected segment (i.e., “Pizza King (CA)”), and lists the estimated number of consumers in the segment (which corresponds to the “Est. Segment Population” field **919**). Segment display field **941** identifies the number of consumers in the available consumer population that are not subject to the selected segment. In the example shown in FIG. 9, field **941** indicates that an estimated 58,349,204 consumers will not be eligible to receive a TMO because they have not (or likely will not) engage in transactions that satisfy the selected segment dimension criteria.

As will be understood, in various embodiments of the present system, multiple segments may be created and/or edited simultaneously. In these instances, display field

901 displays icons and segment information for each selected segment. Further, according to some embodiments, the number of consumers **103** indicated in display field **901** is merely an estimate of the total number of consumers that will receive offers associated with a selected segment. In these embodiments, an estimated number is provided (as opposed to an actual number), because, depending on the particular campaign or segment, the campaign may apply only to future transactions, and so a specific, accurate total cannot be determined. Again, as mentioned, only aggregated consumer transaction data is transmitted to the OMS, so no consumer-identifying information or specific account numbers are ever transmitted, and thus advertisers remain unaware of specific consumers that receive (or may receive) TMOs.

Still referring to FIG. 9, in the embodiment shown, the “Manage Offers” section **921** is the interface in the portal display **900** through which TMOs are created and/or edited. As will be understood, the representative offer specifics (e.g., “Reward Amount”, “Image”, etc.) are presented merely for illustrative purposes, and embodiments of the TMS **215** are not limited to the particular specifics shown. In the “Offer Name” field **923**, an advertiser **213** defines a name for a new offer, or retrieves a previously-created offer from a drop down menu associated with field **923**. For example, the name of the selected offer is “Pizza King (June)”, likely indicating an offer that is (or will be) targeted to consumers of Pizza King stores in June of the selected year.

As shown, “Start date” and “End date” fields **925**, **927** define the start and end dates between which TMOs **113** will be presented to consumers **103**. In one embodiment, the start and end dates defined in fields **925** and **927** map directly to the campaign start and end dates. In other embodiments, however, the offer start and end dates are independent of the campaign start and end dates, and define the time period in which offers will be displayed to (i.e., viewable by) consumers via their financial institution portals. In one embodiment, both campaign and offer start and end dates correspond to monthly time periods (i.e., the first and last days of a month) to coincide with traditional financial institution billing cycles. As will be understood, time periods for campaigns, segments, and offers are defined to correspond to varying criteria as desired by a system operator or advertiser.

Still referring to the “Manage Offers” section **921**, in the “Reward Amount” field **929** (i.e., incentive or offer amount), the advertiser **213** defines an amount or value for the selected TMO. Generally, this amount is a value the consumer **103** will receive off of his or her purchase or as a credit to his or her financial institution account if he or she

5 “redeems” the offer (i.e., engages in a RQP **117**). In general, the amount defined in the “Reward Amount” field **929** is entered by the advertiser as a dollar value or percentage of purchase and, if necessary, converted to each consumer’s appropriate rewards type as determined by the rewards type associated with each consumer’s account. In one

10 embodiment, this conversion process is carried out within each OPS before requesting an offer redemption payment be issued to the consumer by the financial institution (described in greater detail below in conjunction with FIG. 23). In another embodiment, the reward amount value is converted to rewards currency before the offer is ever displayed to the consumer. In the “Image” and “Text” fields **931**, **933**, respectively, advertisers have the capability to include an image (such as an advertiser logo) or text in

15 the TMO.

As will be understood, the offer defining information shown (**925**, **927**, **929**, **931**, **933**) is presented for illustrative purposes only, and other similar specifics, such as redemption methods, minimum RQP **117** spend amounts for redemptions to apply, particular advertiser locations at which redemption occurs, etc., are utilized according to

20 various embodiments of the present TMS **215**. Additionally, according to one embodiment, offers do not necessarily require (or make available) redemption. Some offers, for example, are simply advertisements indicating an advertiser logo or text.

Once an advertiser **213** is satisfied with the segment and offer as defined, the advertiser may elect to save the segment and offer via Save button **935**. Once saved, the

25 segment and offer are stored in the OMS database **305** in their respective campaign file. Further, if the advertiser wishes to publish the campaign (or in other embodiments, individual offers), then the advertiser selects Publish Campaign button **943**. Once published, the campaign (and its associated segments and offers) are subject to the publish process, described previously in conjunction with FIG. 8.

30 Also shown in the exemplary OMS advertiser portal **900** are Billing and Reporting tabs **945**, **947**, respectively. When an advertiser **213** selects Billing tab **945**, a

billing screen is displayed (not shown), in which the advertiser is able to make deposits into a TMS account to cover consumer redemptions and/or manage payments directly to an identified system operator (or third party payment entity), track payouts to consumers, and perform other billing functions. When an advertiser selects Reporting tab **947**, a
5 reporting screen is displayed (not shown), in which the advertiser is able to review statistics and analytics associated with the advertiser's campaign(s). Such performance data is recorded by each OPS **207** and transmitted to the OMS **211** for advertiser review. Generally, the OMS provides informative displays (such as charts, graphs, tables, etc.) and other data indicating the performance (i.e., success) of the advertiser's campaign(s),
10 both historically and in virtually real-time. Such information includes total number of offers redeemed, total number of offer impressions (i.e., views of an offer by consumers), total amount spent at advertiser locations in conjunction with offer redemption, amounts spent at advertiser locations as compared to competitor locations, and other similar reporting information.

15 As will be understood and appreciated by one of ordinary skill in the art, the fields and sections shown in the exemplary OMS advertiser portal **900** shown in FIG. 9 generally comprise conventional data entry fields, such as drop down menus, free-form text entry fields, selectable buttons, etc.

Referring now to FIG. 10, a flowchart is shown illustrating one embodiment of a
20 computer-implemented campaign generation process **1000** from the perspective of the operational steps carried out by the TMS **215**. The process **1000** illustrated in FIG. 10 coincides closely with the campaign generation process **800** shown in FIG. 8, except that FIG. 8 tracks the campaign generation process from the advertiser perspective, whereas FIG. 10 describes computer-implemented steps of the campaign generation process from
25 the system perspective (in response to advertiser-entered data). At step **1001**, the system **215** displays a GUI associated with the OMS advertiser portal **900** to an advertiser **213**. Generally, the advertiser either selects a preexisting campaign or chooses to generate a new campaign. Accordingly, the system receives the advertiser's selection (step **1003**). If a new campaign is selected (step **1005**), the system awaits and subsequently receives
30 campaign data entered by the advertiser (step **1009**). If a preexisting campaign is selected (i.e., a campaign previously created by the advertiser), the system accesses the

preexisting campaign (step **1007**), and then receives advertiser-entered campaign data (if any). Once all campaign-related data has been received, the data is stored in the OMS database **305** (step **1011**) (see FIG. 11 for exemplary campaign table that reflects and represents stores campaign-related data).

5 After a campaign has been selected and stored, an associated segment is typically created or selected for editing. If a new segment is selected for creation (step **1013**), the system awaits and subsequently receives segment data entered by the advertiser (step **1017**). If a preexisting segment is selected (i.e., a segment previously created by the advertiser), the system accesses the preexisting segment (step **1015**), and then receives
10 advertiser-entered segment data (if any). Once all segment data has been received, the data is stored in the OMS database **305** (step **1019**) (see FIG. 12 for exemplary segment data table).

 After a segment has been selected and stored, an associated offer is typically created or selected for editing. If a new offer is selected for creation (step **1021**), the
15 system awaits and subsequently receives offer data entered by the advertiser (step **1025**). If a preexisting offer is selected (i.e., an offer previously created by the advertiser), the system accesses the preexisting offer (step **1023**), and then receives advertiser-entered offer data (if any). Once all offer data has been received, the data is stored in the OMS database **305** (step **1027**) (see FIG. 13 for exemplary offer data table). At step **1029**, the
20 system queries the advertiser **213** as to whether the advertiser would like to publish the campaign. If the advertiser does not wish to publish the campaign, then the campaign generation process **1000** is ended. If, however, the advertiser does wish to publish the campaign, then the campaign data is transmitted to each OPS **207** and the publication process is initiated (discussed previously).

25 FIGS. 11, 12, and 13 are exemplary data tables or structures illustrating representative data that was received and stored during the campaign generation process **1000**. As mentioned previously, the collection of data contained in these tables (i.e., tables **1100**, **1200**, **1300**) is generally referred to herein as “campaign data” **315**. As will be understood, tables **1100**, **1200**, **1300** are presented for illustrative purposes only, and
30 embodiments of the present system **215** are not limited to use of the specific data tables shown. In one embodiment, the three disparate tables are merged into one large data file

within the OMS database **305**. In another embodiment, a relational data table or index (not shown) stores and associates each campaign ID with its corresponding segment ID(s) and offer ID(s) such that offers, segments, and campaigns may be queried and tracked in relation to one another.

5 FIG. 11 is an exemplary campaign table **1100** illustrating advertiser-entered, campaign-related data received during campaign generation, as reflected by a plurality of entries in the table, each entry having a plurality of predetermined data fields. As shown, the table **1100** includes five data categories or fields: campaign identifier (ID) **1101**, advertiser identifier (ID) **1103**, author identifier (ID) **1105**, campaign start date **1107**, and
10 campaign end date **1109**. As will be understood, however, the data categories or files are not limited to the fields shown, and other embodiments include additional fields, including those mentioned previously herein, as well as those not mentioned that will occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to exemplary and
15 illustrative campaign IDs 10000–10004), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of entries corresponding to a plurality of campaigns created by advertisers **213** utilizing aspects of the present system.

As shown, the campaign ID field **1101** indicates a unique campaign identifier
20 associated with each campaign. Each campaign identifier is generated by an embodiment of the TMS **215** and associated with a respective campaign as each campaign is generated by an advertiser **213**. Although the campaign IDs are illustrated as 5-digit numbers, it will be appreciated that these unique identifiers may comprise many formats, including number strings of longer length, hexadecimal identifiers, binary identifiers, and the like.
25 The advertiser ID field **1103** indicates the particular advertiser associated with each campaign. The author ID field **1105** indicates the individual system user that actually created each campaign. Further, the campaign start and end date fields **1107**, **1109** indicate the beginning and end dates for each campaign. As mentioned previously and according to various embodiments, these dates may or may not correspond to offer start
30 and end dates, may or may not coincide with financial institution account billing cycles,

etc. Representative campaign **1111** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

FIG. 12 is an exemplary segment table **1200** illustrating advertiser-entered, segment-related data received during campaign generation, as reflected by a plurality of entries in the table, each entry having a plurality of predetermined data fields. As shown, the table **1200** includes five data categories or fields: campaign identifier (ID) **1101**, segment identifier (ID) **1201**, location **1203**, merchant category / merchant **1205**, and spend amount **1207**. In particular, it will be appreciated that the campaign ID **1101** provides a link or connection of a particular segment to a particular campaign, so that a particular segment represented by an entry in a segment table is associated with a particular campaign. For example, in the entry **1209**, the segment ID 55555 is a segment associated with campaign ID 10000.

It should be understood that the data categories or files are not limited to the fields shown in FIG. 12, and other embodiments include additional fields, including those mentioned previously herein, as well as those not mentioned that will occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to segment IDs 55555–55559), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of entries corresponding to a plurality of segments created by advertisers **213** utilizing aspects of the present system.

As shown, the segment ID field **1201** indicates a unique segment identifier associated with each segment. Each segment identifier is generated by an embodiment of the TMS **215** and associated with a respective segment as each segment is generated by an advertiser **213**. Just as with the campaign identifiers, the segment identifiers comprise various formats within various embodiments of the present TMS **215**, and are not limited by the 5-digit number format shown. Additionally, as each segment identifier is generated, it is associated with a respective campaign identifier (shown in campaign ID field **1101** in the segment table **1200**) within the OMS database **305** to create a link between the segment and its corresponding campaign. The link between the segments and campaigns enables information in both tables to be accessed when either a specific segment or campaign is queried or accessed. The location field **1203** indicates, in one

embodiment, one or more locations in which consumer transactions that are part of each respective segment may occur. In another embodiment, the location field **1203** indicates the location of consumer billing addresses. In further embodiments, the location field **1203** represents another location as will occur to one of ordinary skill in the art.

5 Still referring to FIG. 12, merchant category / merchant field **1205** indicates a particular merchant **101** (FIG. 1), merchants, or category of merchant with which consumer transactions that are part of the respective segment are carried out. Generally, the spend amount field **1207** indicates a minimum amount that each consumer must have spent, either via a single transaction or cumulatively across many transactions over the
10 specified campaign time period, in order to qualify as part of a given segment. As shown, representative segment **1209** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

FIG. 13 is an exemplary offer table **1300** illustrating advertiser-entered, offer-related data received during campaign generation, as reflected by a plurality of entries in
15 the table, each entry having a plurality of predetermined data fields. As shown, the table **1300** includes eight data categories or fields: campaign identifier (ID) **1101**, segment identifier (ID) **1201**, offer identifier (ID) **1301**, offer amount **1303**, offer start date **1305**, offer end date **1307**, offer text **1309**, and offer image **1311**. As will be understood, however, the data categories or fields are not limited to the fields shown, and other
20 embodiments include additional fields, including those mentioned previously herein, as well as those not mentioned that will occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to offer IDs 99999–99995), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of
25 entries corresponding to a plurality of offers created by advertisers **213** utilizing aspects of the present system.

As shown, the offer ID field **1301** indicates a unique offer identifier associated with each offer. Each offer identifier is generated by an embodiment of the TMS **215** and associated with a respective offer as each offer is generated by an advertiser **213**. Just as
30 with the campaign and segment identifiers, the offer identifiers comprise various formats within various embodiments of the present TMS **215**, and are not limited by the 5-digit

number format shown. Additionally, as each offer identifier is generated, it is associated with a respective segment identifier and campaign identifier (shown in campaign ID field **1101** and segment ID field **1201** in the offer table **1300**) within the OMS database **305** to create a link between the offer and its corresponding segment and campaign. The link
5 between the offers, segments, and campaigns enables information in any of tables **1100**, **1200**, or **1300** to be accessed when a specific offer, segment, or campaign is queried or accessed.

Generally, the offer amount field **1303** indicates a reward amount or value a consumer **103** will receive if he or she completes a RQP **117** associated with the offer.
10 The offer amount is generally entered by an advertiser within the OMS advertiser portal **900** as either a dollar amount or a percentage of a subsequent RQP, although other advertiser-entered offer amounts are possible within embodiments of the present system as will occur to one of ordinary skill in the art. In one embodiment, the offer amount is converted to an equivalent value of financial institution rewards currency (e.g., points,
15 miles, etc.) before the offer is displayed and/or paid to the consumer (described in greater detail below in conjunction with FIG. 23). Typically, if the offer amount is converted to rewards currency, it is so converted by each OPS **207** based on predetermined conversion ratios set by each financial institution **205**. In one embodiment, each consumer account associated with a particular rewards currency at a financial institution is grouped into a
20 portfolio for that particular rewards currency to enable efficient conversion of offer amounts. In an alternate embodiment, the offer amount is predefined by an advertiser in a rewards currency or currencies, and thus offers are only displayed to consumers that have accounts that utilize the specific defined rewards currency(ies). As mentioned, according to the preferred embodiment, the offer amount is automatically issued/paid to
25 each consumer's account by the respective OPS **207** and financial institution **205** once (if) a RQP has occurred.

Although not shown, in one embodiment of the present system **215**, an offer-qualifying amount is defined as an item of offer defining information, indicating a minimum amount a consumer **103** must spend via the RQP **117** in order to receive the
30 reward (i.e., offer amount). For example, an advertiser may dictate that, after a consumer has received an offer, the consumer must spend more than \$25 in a follow-up purchase or

purchases in order for the purchase(s) to qualify as an RQP. In the offer start and end date fields **1305**, **1307**, beginning and end dates are indicated for offer presentment to consumers. According to one embodiment, advertisers **213** may elect to “abandon” an offer (or entire campaign) prior to the end date if, for example, the consumer response rate to the campaign or offer was higher than expected. Generally, however, if an offer or campaign is abandoned, consumers that have already received the abandoned offer will remain eligible to redeem it according to its stipulated offer specifics.

Still referring to FIG. 13, the offer text field **1309** indicates a message, advertisement, or text presented to each consumer **103** with each respective TMO. Further, the offer image field **1311** indicates an image or picture uploaded and defined by an advertiser **213** to be included with the offer. Generally, the image comprises a advertiser logo, but virtually any image may be included. As shown, representative offer **1313** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

15

Offer Placement System (OPS)

As described previously, embodiments of the offer placement system (OPS) **207** enable matching of received campaign data from the offer management system (OMS) **211** with de-identified consumer transaction data received from financial institutions **205**, injecting or merging targeted marketing offers (TMOs) into financial institution portals for review by consumers **103**, transmission of unidentified merchant names to the OMS for validation, organizing and transmitting offer redemption data to financial institutions for reimbursements to consumers, transmitting of results (i.e., performance) data to the OMS, and other similar processes as described herein. Generally, at least one OPS **207** is in operative association with each financial institution location, preferably located behind the institution’s firewall(s) and reverse proxy **217**, thus enabling direct communication with each financial institution while maintaining financial institution-level security with outside components (such as the OMS) (see FIG. 3 and its associated discussion for further details of OPS and financial institution architecture). Details and specific functionality associated with the OPS and its processes will now be further described.

30

FIG. 14 is a flowchart illustrating the overall computer-implemented processes and functions performed by the OPS **207** according to one embodiment of the present TMS **215**. As will be understood and appreciated, the steps shown in FIG. 14 are not necessarily completed in the order shown, as the OPS operates on a continual and
5 recurring basis, and the steps shown in FIG. 14 are associated with disparate functions of the OPS. Accordingly, the steps shown in FIG. 14 are generally asynchronous and independent, computer-implemented, tied to a particular machine (OPS **207**), and not necessarily performed in the order shown. As shown, starting at step **1401**, the OPS **207** monitors for incoming de-identified consumer transaction data from the financial
10 institution **205**. If data is received, then such data is stored within the OPS database **307** in a de-identified consumer transaction table **1700** (described in greater detail below) for further processing (steps **1403**, **1405**). If no data is received, then the OPS again monitors for receipt of data (step **1401**). As will be understood, steps **1401** and **1403** are performed on a looping basis to continually check for incoming consumer transaction
15 data. In one embodiment, data is transmitted from the financial institution periodically (e.g., hourly, daily, etc.), and thus the OPS only monitors for incoming data once per period.

Once received, the consumer transaction data is stored in the OPS database **307** (step **1405**). The stored data comprises an instance or subset of the representative data
20 shown in de-identified consumer transaction table **1700**, which comprises de-identified transactions completed by various consumers. The consumer transaction data is utilized for matching consumer transactions to campaigns and offers (discussed in greater detail below in conjunction with FIG. 15). Upon receiving and storing the de-identified transaction data, the OPS determines whether any of the merchant names in the data are
25 unidentifiable, and then extracts and transmits all unidentified names to the OMS to be identified and categorized via the merchant identification process **500** (described previously) (step **1407**). After executing the merchant identification process, the OMS returns all validated merchant names to the OPS (step **1409**), which then stores the received, validated merchant names within a validated merchant table **700** in the OPS
30 database **307** for subsequent use in matching transactions to offer data.

As described previously, during campaign generation, the OMS **211** transmits requests to the OPS **207** for aggregated consumer transaction data that satisfies various segments created by advertisers. Thus, at step **1413**, the OPS receives such a request for segment population totals. Upon receiving such request, the OPS determines which de-identified consumer transactions satisfy the segment request, aggregates the determined transaction data, and transmits the data to the OMS for use in campaign creation (step **1415**). According to one embodiment, a predetermined searching algorithm is used to determine which transactions satisfy the segment dimensions associated with the request (similarly to the matching algorithm used in the matching process **1500**, described below in association with FIG. 15).

At step **1417**, the OPS **207** monitors for incoming campaign data **315** from the OMS **211**. If data is received, then the OPS activates the matching process **1500** (described below), whereby the received campaign data is utilized in conjunction with de-identified consumer transaction data for matching consumer transactions to specific offers (steps **1419** and **1500**). If no campaign data is received, then the OPS again monitors for receipt of data (step **1417**). Generally, the campaign data includes campaign, segment, and offer data such as that shown in FIGS. 11-13. As will be understood, steps **1417** and **1419** are performed on a recurring basis to continually check for incoming campaign data or updates to previously-received data. If updated data is received, then previously-matched offers are modified accordingly. In one embodiment, data is transmitted from the OMS periodically (e.g., hourly, daily, etc.), and thus the OPS only monitors for incoming data once per period. As mentioned previously, incoming data may be transmitted in the form of instances of local data tables or structures, or may comprise access calls to master data stores in other TMS components. As also mentioned previously, any incoming data to an OPS from the OMS passes through financial institution firewall(s) **330** and a reverse proxy **217**. Thus, all data must comply with each financial institution's guidelines and protocols. If it does not, the communication is blocked and an error message is transmitted to the respective advertiser and/or OMS operator.

Still referring to FIG. 14, once de-identified consumer transaction data and campaign data has been received by the OPS, a matching process **1500** is initiated to

identify which consumers will receive specific TMOs **113** based on specific consumer transactions (i.e., offer-qualifying purchases (OQPs) **115** or offer-triggering events). The details associated with the matching process are described in conjunction with FIG. 15. After offers and transactions have been matched, the matched offers are stored in a
5 matched offer table (see FIG. 18 and associated discussion) in the OPS database **307** where they await injection into financial institution consumer portals (or are sent to a consumer via another mechanism, such as via mobile devices, email, SMS or MMS messages, etc.). As a consumer **103** logs into his or her financial institution portal to view his or her account(s), an injection process **1900** is performed, in which the matched
10 offers are merged into the respective financial institution portal for display in association with respective consumer transactions (see FIG. 19 and associated discussion for details). Over time, as consumers **103** view the TMOs **113** and redeem them via RQPs **117**, the redemption process **2300** tracks and records viewed and redeemed offers, and instructs financial institutions **205** to issue offer redemption payments (ORPs) **225** to consumer
15 accounts (see FIG. 23 and associated discussion). As data associated with viewed and redeemed offers, etc., is collected and stored, the OPS **207** aggregates and transmits such campaign results data **301** to the OMS **211** in response to a request from the OMS for such data for processing and display to advertisers **213**.

Referring now to FIG. 15, a flowchart is shown illustrating one embodiment of a
20 computer-implemented matching process **1500** for matching TMOs **113** to consumer OQPs **115** or OTEs within an OPS **207**. As will be understood, the matching process **1500** generally occurs at pre-determined time intervals which can be adjusted as new campaign and transaction data is received within an OPS. At step **1501**, stored de-identified consumer transaction data for each consumer is retrieved from the de-identified
25 consumer transaction table **1700** (based on account GUIDs) within the OPS database **307**. At step **1503**, campaign data **315** is received from the OMS. As will be understood, steps **1501** and **1503** may occur simultaneously, or in reverse order than that shown. Generally, the data is newly-received data that has not yet been matched (i.e., transactions have not yet been matched to offers). However, in one embodiment, even
30 previously-matched transactions and offers are re-processed periodically to determine if a

more appropriate or specific match exists, based on a ranking algorithm (discussed below).

Once the de-identified transactions data has been retrieved and the campaign data has been received, a predetermined matching process is performed on the data to
5 determine which TMOs each specific consumer should receive (step **1505**). Preferably, the matching algorithm utilizes a conventional, hierarchical matching process that compares segment data (such as that shown in FIG. 12) to de-identified consumer transaction data (such as that shown in FIG. 17) to determine which transactions satisfy which segments (i.e., the system compares each transaction in a list of transactions to
10 elements of campaign data). For example, an amount **1611** of a given transaction or purchase may be compared to the spend amount **1207** for each available segment. If the transaction satisfies the spend amount for one or more segments, then the next dimension of the identified segment(s) are processed, and so on. As will be appreciated, if a given transaction fails to satisfy any segments, then no offer is matched to the transaction.

15 Once the OPS **207** confirms that a specific consumer's transaction(s) match the dimensions for a respective segment, then the TMO associated with the segment is retrieved (based on related offer and segment IDs) and stored as an identified match with the transaction(s) for subsequent processing and display to consumers (as explained below in conjunction with FIG. 19). According to one embodiment, each TMO specifies
20 where it should be placed (i.e., displayed) in a consumer's financial institution portal. For example, offers may be placed underneath a transaction, adjacent to a transaction, in a side bar, in a pop-up advertisement, etc., within the financial institution portal. Further, when an offer is placed underneath a transaction, the advertiser can define, via the OMS advertiser portal **900**, whether the offer is placed beneath a transaction from a specific
25 merchant, beneath a transaction from merchants or advertisers of similar type to the advertiser, or beneath any transaction. Based on predetermined rules defined by a financial institution or system operator, the OPS determines precisely where to display the offer when it is presented to a consumer.

It will be appreciated by one having ordinary skill in the art that, under some
30 circumstances, more than one offer will apply to a given transaction. In these circumstances, and according to one embodiment, once all offers have been matched to a

transaction, a predetermined ranking algorithm is utilized to determine which offer will be displayed with the particular transaction. In one embodiment, the ranking algorithm is customized to a system operator's or financial institution's specifications. For example, in one embodiment, advertisers **213** pay additional fees to the TMS operator to give their offers higher priority. In other embodiments, offers are ranked based on the overall perceived value of the offer (e.g., offer amount **1303**), and the offer with the highest value to the consumer is selected as the matched offer.

Other variables for ranking are considered in other embodiments, such as the consumer's predicted responsiveness to each offer (e.g., based on the number of the consumer's transactions in a given merchant category), whether other offers from the particular advertiser have been previously presented to the particular consumer (determined based on the account GUID, discussed below), etc. According to still further embodiments, rather than ranking potential offers, if a given transaction satisfies more than one segment, all matched offers associated with the satisfied segments are subsequently displayed to the consumer.

After each OQP **115** or OTE is matched to a respective TMO **113**, the match (i.e., the identifiers associated with matched offer and transaction(s)) is stored in a matched offer table **1800** (discussed below) until the matched offer is called for display to its respective consumer **103** (step **1507**). Generally, each OPS database **307** and the data tables stored therein are formatted to correspond to data structures of their respective financial institutions **205**. Because of variations in the manner in which financial institutions process and record data, some level of customization is generally required when an OPS is formatted for a given financial institution. However, once installed and formatted, the OPS, financial institution, and OMS integrate seamlessly to transmit data and perform their respective functions.

FIG. 16 is an exemplary consumer transaction table **1600** illustrating consumer transactions recorded by a financial institution **205** and stored within a financial institution database **309**. As will be understood, table **1600** is presented for illustrative purposes only, and embodiments of the present system **215** are not limited to use of the specific data table shown. As mentioned previously, the data included in consumer transaction table **1600** is stored at all times within the financial institution, and is de-

identified before being sent to the OPS (described below). The consumer transaction table **1600** comprises consumer transaction data, as reflected by a plurality of entries in the table, each entry corresponding to an individual transaction, and each entry having a plurality of predetermined data fields.

5 As shown, the table **1600** includes seven data categories or fields: account number **1601**, account global unique identifier (GUID) **1603**, transaction identifier (ID) **1605**, zip identifier (ID) **1607**, merchant name (or identifier (ID)) **1609**, amount **1611**, and rewards type **1613**. As will be understood, however, the data categories or fields are not limited to the fields shown, and other embodiments include additional fields as will
10 occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to account numbers 2930928402, 1029478293, etc.), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of entries corresponding to a plurality of consumer transactions recorded by embodiments of the
15 financial institutions **205**.

As shown, the account number field **1601** indicates the specific account number associated with a consumer's account. The account GUID field **1603** indicates a unique global account identifier (i.e., a secure identifier) associated with each consumer's account. Prior to transmitting data to the OPS **207**, each financial institution replaces
20 actual consumer names and/or account numbers with GUIDs, which are a conventional type of identifier used when dealing with secure or sensitive data. Generally, each financial institution **205** incorporates its own internal process to convert actual accounts to GUIDs. Although the account GUIDs are illustrated as 5-digit numbers, it will be appreciated that these unique identifiers may comprise many formats, including number
25 strings of longer length, hexadecimal identifiers, binary identifiers, and the like. Conventional GUIDs comprise 32 hexadecimal digits as will be known to those skilled in the art, such as, for example: 3F2504E0-4F89-11D3-9A0C-0305E82C3301.

As will be understood, use of GUIDs in place of actual consumer accounts or consumer identifiers prevents unauthorized access to confidential consumer information
30 by components outside of the financial institution **205** (e.g., OMS, Internet, etc.). If, however, some sensitive data were accidentally transmitted to an OPS **207**, no further

breach of this data would occur, as the OPS is in operative association with the financial institution behind the financial institution's firewall(s) **330** and reverse proxy **217**.

Further, the distributed architecture of the financial institution and each OPS (as shown previously in FIG. 3) creates additional layers of security for each component.

5 Accordingly, all private and sensitive consumer information is retained within the financial institution's security mechanisms, thus allowing placement of TMOs without disclosure of sensitive and confidential consumer data.

Still referring to FIG. 16, transaction ID field **1605** indicates a unique transaction identifier associated with each transaction. Generally, these transaction IDs are generated
10 and associated by financial institutions **205** with transactions in much the same manner as account GUIDs. In one embodiment, the transaction IDs are represented by add-on characters to the account GUIDs, as typically more than one transaction is associated with each account.

In one embodiment, the zip ID field **1607** indicates the zip code (i.e., location) in
15 which the specific transaction occurred. In other embodiments, the zip ID field **1607** indicates the zip code of the billing address of the consumer associated with the specific account, or some other informational location. As will be understood, the zip ID field is essentially a location identifier, and thus other location indicia may be included (e.g., city, state, etc.).

20 As shown, the merchant name field **1609** indicates the specific business entity with which the transaction occurred. As will be understood, the business entity shown in field **1609** may be a merchant, advertiser, advertiser competitor, etc. The amount field **1611** indicates the amount of the transaction. Further, the rewards type field **1613** indicates the particular rewards type (if any) tied to the respective account. For accounts
25 with only one rewards type, the financial institution indicates which type of rewards program is associated with the account in which the transaction occurred. For accounts with multiple rewards programs, either a single program is selected by the financial institution, or multiple programs are indicated in association with the given transaction in rewards type field **1613**. Further, in some embodiments, rather than indicating a rewards
30 type in a consumer transaction table, the rewards type(s) associated with each account is stored in a separate file (e.g., portfolio of accounts associated with a given rewards type)

in the financial institution database **309**. Again, transaction data as referred to herein is not limited by the specific fields shown in FIG. 16, and other data items are contemplated, such as merchant categories, amount spent in an overall merchant category, transaction type, specific goods and/or services purchased, and other similar data fields. Additionally, as shown, representative transaction **1615** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

FIG. 17 is an exemplary de-identified consumer transaction table **1700** illustrating de-identified consumer transactions data recorded by a financial institution **205** and transmitted to its respective OPS **207**. The de-identified consumer transaction table **1700** comprises de-identified consumer transaction data, as reflected by a plurality of entries in the table, each entry corresponding to an individual transaction, and each entry having a plurality of predetermined data fields.

As explained and defined previously herein, de-identified transactions are those in which consumer- and/or account-identifying information has been removed (and typically replaced with a GUID). As will be understood, table **1700** is presented for illustrative purposes only, and embodiments of the present system **215** are not limited to use of the specific data table shown. As shown, table **1700** is identical to consumer transaction table **1600**, except that the actual account number associated with each transaction has been removed. Accordingly, table **1700** includes six data categories or fields: account global unique identifier (GUID) **1603**, transaction identifier (ID) **1605**, zip identifier (ID) **1607**, merchant name (or identifier (ID)) **1609**, amount **1611**, and rewards type **1613**. As will be understood, however, the data categories or files are not limited to the fields shown, and other embodiments include additional fields as will occur to one of ordinary skill in the art. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to GUIDs 12932, 23049, etc.), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of entries corresponding to a plurality of consumer transactions recorded by embodiments of the present TMS **215**.

FIG. 18 is an exemplary matched offer table **1800** illustrating identifiers associated with matched transactions (OQPs **115**), offers (TMOs **113**), and accounts as a result of the matching process **1500**. The matched offer table **1800** comprises matched

offer data, as reflected by a plurality of entries in the table, each entry corresponding to the matching of an individual transaction with a specific offer applicable to that transaction, and each entry having a plurality of predetermined data fields.

As will be understood, table **1800** is presented for illustrative purposes only, and
5 embodiments of the present system **215** are not limited to use of the specific data table shown. As shown, the table **1800** includes four data categories or fields: transaction identifier (ID) **1605**, offer identifier (ID) **1303**, account global unique identifier (ID) **1603**, and rank **1801**. As will be understood, however, the data categories or fields are not limited to the fields shown, and other embodiments include additional fields as will
10 occur to one of ordinary skill in the art, including offer-triggering event (OTE) identifier (ID), etc. As will also be understood, although only five data entries are shown in the table (i.e., entries corresponding to transaction IDs 55550, 37953, etc.), actual data tables constructed in accordance with embodiments of the present system may include a virtually unlimited number of entries corresponding to a plurality of matched consumer
15 transactions and offers.

As shown, the transaction ID field **1605**, offer ID field **1303**, and account GUID field **1603** correspond to the similarly-identified fields shown and discussed previously in conjunction with FIGS. 13, 16, and 17. In one embodiment, when offers and transactions are matched, the respective data entries are pulled or replicated from the respective data
20 tables or files and stored in matched offer table **1800**. For offer-triggering events (OTEs) in which offers are not necessarily matched to a single transaction, the account GUID field **1603** indicates to which consumer account a matched OTE corresponds. Rank field **1801** identifies the ranking of the particular matched offer as compared to other matched offers for the given transaction or OTE (as mentioned previously). Additionally, as
25 shown, representative transaction **1803** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

As will be described below, when a consumer logs into his or her financial institution portal and views his or her transactions, the associated offer(s) are retrieved from matched offer table **1800** (or an equivalent data store) for display to the consumer
30 based on the consumer's matched transactions or OTEs. As will be understood, however, simply because a transaction has been matched with an offer or OTE does not necessarily

mean the consumer **103** will actually receive the offer. For example, if a given consumer infrequently views his or her online banking portal, then he or she may never receive a particular offer or offers. Or, if an offer or OTE has been assigned a low rank, then that offer may not be displayed to the given consumer because other, higher-ranked offers
5 apply to the given transaction or OTE. For this reason (and others), offer views (i.e., “impressions”), in addition to offer redemptions, are recorded by each OPS **207** for purposes of reporting to advertisers **213**, etc.

Targeted Marketing Offer Injection or Merging into Display of Online Portal

10 FIG. 19, consisting of FIG 19A and 19B, illustrates a computer-implemented process for injecting or merging a selected targeted marketing offer (TMO) into the display of an online portal provided by a financial institution, in accordance with aspects of the claimed invention(s). As will by now be understood, once the disclosed targeted marketing system (TMS) **215**, via the operations of the OMS **211** and OPS **207** as
15 described herein, has carried out prior processes of processing transaction data to provide a basis for identifying market segments, creating a campaign from such processed transaction data by determining appropriate market segments for receiving offers, establishing the terms and conditions for a targeted marketing offer within such segments, and determining that predetermined TMO display conditions have been
20 satisfied by a consumer’s action (e.g., a predetermined transaction or other offer-triggering event), the TMS **215** displays information corresponding to the TMO to the consumer via the online portal. In one particular aspect, the TMO information is displayed in close juxtaposition, proximity, or other discernible association with the consumer’s prior transaction information as the consumer views the same via their online
25 banking portal.

FIG. 19A is a flowchart illustrating an embodiment of an injection process **1900** for injecting or merging matched offers into an online financial institution portal in association with consumer transaction displays when a consumer logs in and views his or her financial institution portal. FIG. 19A is a more generalized offer injection process
30 **1900**, whereas FIG. 19B (discussed in greater detail below) illustrates a specific

implementation of one embodiment of a document object model (DOM) injection process
1900a for injecting offers into consumer financial institution portals.

In general, embodiments of the claimed invention(s) utilize a form of “cross-site
scripting” in order to effect the merger or injection of TMOs into the financial institution
5 portal, or other similar technique which does not require significant computing resources,
programming, or modification of the financial institution web server code that generates
the portal on behalf of a consumer. As known to those skilled in the art, many modern
web browser programs that run on consumers’ computers or other web-accessing devices
(such as smart phones) include embedded program code execution engines. Such modern
10 browsers include well known programs such as Microsoft’s Internet Explorer, Mozilla
Firefox, Apple Safari, Google Chrome, and others. Embedded program code execution
engines include those identified as Javascript, Flash, XML, PHP, CSS (Cascading Style
Sheets), ASP, and others.

Generally speaking, such embedded program code is computer-executable
15 program code that is downloaded at run time from a web site and executed within the
browser environment at a local (client) computer, instead of code that is executed at a
server computer that provides the HTML or similar code commonly associated with a
“web page.” Further generally speaking, a cross-site scripting method typically involves
the downloading of computer program code from a primary web server that generates the
20 display of a web site (such as HTML that generates the financial institution portal), which
embeds a minimal script or call to download and run computer program code from
another server (e.g. a script server or another process in the primary web server) that
effects the functionality of the TMO injection or merger into the portal display.

According to one aspect of the claimed invention(s), and according to one
25 embodiment, a cross-site scripting method utilizes the Javascript code execution
capability of modern web browsers to run a script that merges or injects information
corresponding to a targeted marketing offer into the financial institution portal display of
a consumer’s account history comprising a plurality of transactions of the viewing
consumer. The web page comprising the portal display, typically an account history page
30 comprising a list of the consumer’s prior transactions, is dynamically adjusted to
incorporate (merge, inject) the TMO information into the display of transactions of the

financial institution portal, in an unobtrusive and aesthetically acceptable manner and format. Advantageously, the financial institution portal is independent of and systemically uncoupled from the TMO injection, such that (a) the TMO information is seamlessly and unobtrusively presented to the consumer in accordance with

5 predetermined advertisement placement information (such as display the TMO adjacent to a selected transaction, display the TMO in a predetermined position on the portal display screen, etc.) and (b) any issues with operation or security of the injection process will not affect the operation of the financial institution portal, which will continue to operate and serve the consumer's needs whether or not any TMOs are presented.

10 Although the disclosed embodiments and aspects are described in connection with use of Javascript code embedded into the HTML of the financial institution portal, it should be understood that other techniques for merging or injecting the TMO information into the portal can be employed, such as by certain forms of redirection to another site, use of browser frames, and the like, but other techniques may present technical or

15 business issues that are more complex than a simple merger or injection operation. For example, the known security policy of "same origin" for a script and a document or code that contains a script is satisfied in disclosed aspects of the claimed inventions by use of a proxy at the financial institution web server that redirects a call for script to the OPS residing within the financial institution's firewall within its DMZ.

20 Prior to discussing the specific methodology of TMO merger or injection by use of a scripting technique, a more generalized discussion of the preferred merger or injection process will be provided by reference to FIG. 19A.

Starting at step **1901** in FIG. 19A, an OPS **207** monitors for a call from its respective financial institution's web server **219** for previously-matched offers. In

25 accordance with one aspect of the disclosed system, each time a consumer **103** logs in to his or her financial institution web portal, a call is automatically transmitted from the financial institution web server to the OPS to retrieve the matched offers (if any) associated with the particular consumer's account transactions (based on the consumer's GUID). In accordance with one disclosed aspect of the claimed invention(s), for this call

30 to occur, a relatively minimal amount of JavaScript code (or some other similar programming language) is inserted into the financial institution's banking portal code at a

previous time when an OPS is initially connected to the financial institution **205**. When a consumer's browser loads the financial institution portal display (and especially an account history page comprising a list of prior transactions of the consumer), this JavaScript code (i.e., "script call code") calls a larger segment of code contained within the OPS that performs the functions of retrieving matched offers and injecting those offers into the financial institution's web portal display to the consumer.

The preferred process of utilizing a small amount of software code inserted into a previously-existing code base to call a disparate and more extensive algorithm enables connection of the TMS (and specifically, the OPS) to the financial institution with minimal initial or on-going effort on the part of the financial institution. Preferably, a JavaScript DOM injection is used to access and execute code stored within the OPS to modify the financial institution's online portal each time a consumer logs in and views his or her account display. Accordingly, there is no server involvement from the financial institution's **205** perspective with the TMO injection, as all processes occur within the OPS **207**, except at the point of web display to the consumer. This functionality is made possible based on the system architecture **300** of embodiments of the TMS **215**, wherein each OPS is directly connected to each financial institution within the financial institution's security infrastructure.

Further, because minimal intrusion into the financial institution's preexisting software code is required, both the financial institution **205** and any associated OPS **207** are free to update and revise their code bases as needed without changing or updating the interaction between these two systems. Additionally, based on the discrete nature of the system architecture **300**, if problems occur with either the TMS or financial institution systems individually, these problems can be confined within each respective component or domain without affecting or infecting the other components. As will be known to those of ordinary skill in the art, while a JavaScript DOM injection is utilized according to one embodiment, other embodiments utilize other scripting, cross-site scripting, or other similar mechanisms for retrieving and rendering updated financial institution web displays with matched offers.

Still referring to FIG. 19A, if a call is received from the financial institution **205** (indicating a consumer **103** has logged in to the financial institution portal to view his or

her account and transactions, e.g. via an account history page), then the stored, matched offers associated with the particular consumer's transactions are retrieved from the matched offer table **1800** maintained by the OPS in the OPS database **307** (step **1905**). If a call is not received, then the OPS **207** again monitors for a call from the financial institution online system (step **1901**) via a continuous monitoring loop. In one embodiment, if a call is received, then the OPS searches its matched offer table according to the GUID associated with the received call from the financial institution (step **1905**). Once the TMOs (if any) associated with a given consumer's transactions are retrieved, information corresponding to the selected TMO's is transmitted to the consumer's browser, and the injection process updates the previously rendered web page associated with the financial institution portal with such retrieved TMO information, thereby displaying the retrieved offer(s) to the consumer (steps **1907**, **1909**) (see FIG. 21). Stated in other words, and according to one aspect of the claimed invention(s), the consumer views his or her account history page initially as originally intended and as originally programmed by the financial institution web portal, and that account history page is updated by the consumer's browser, which receives the TMO information asynchronously to the account history web page display, by locally executing the injection script which dynamically and independently modifies the prior account history display to provide an updated account history display that incorporates the TMO information merged therein.

In one embodiment, the updated consumer financial institution web page is displayed via a hypertext markup language (HTML) web service, or other similar service. As will be understood and appreciated, according to one embodiment, calls to retrieve matched offers may occur with relatively high frequency (possibly hundreds or thousands per minute), and thus the process **1900** shown in FIG. 19A (and particularly steps **1901** and **1903**) is repeated on a continual and rapidly-recurring basis.

Each time the updated financial institution web page is rendered and displayed to a consumer **103** (steps **1907**, **1909**), the OPS **207** records the offer impression for each displayed offer in the offer impression table **2400** (see FIG. 24 and its associated discussion) (step **1911**) in the OPS database **307**. As defined previously herein, an "offer impression" represents an instance of a consumer logging in to his or her financial

institution portal **2100** and viewing the displayed offers associated with displayed transactions. It is inferred that when an offer is injected into the consumer's financial institution portal, the consumer sees the offer. According to one embodiment, a consumer transaction cannot qualify as a RQP for a particular TMO until the OPS
5 recognizes that at least one offer impression of the TMO has occurred for the consumer. Furthermore, offer impressions assist advertisers **213** in tracking and assessing the performance of their campaigns and associated advertisements, as analytics are determined regarding the number of times a consumer viewed an offer before redeeming it, how many times, generally, offers are viewed per month, etc. The details associated
10 with offer impressions and the offer impression table are discussed below.

In accordance with aspects of the claimed invention(s), a DOM injection process is utilized to effect the dynamic updating of a consumer's display to include TMOs in the display, as described next in connection with FIG. 19B. In this embodiment, the script that effects the injection or merger of the TMO information is provided from a server
15 associated with the OPS (identified as OPS local server **207** in FIG. 19A, also called a "script server"), as a result of calls provided to it from a bank web server **219**.

FIG. 19B is a sequence diagram illustrating one embodiment of the steps associated with injecting matched offers into consumer financial institution portals via a DOM injection process **1900a**. As shown, the embodiment of the DOM injection process
20 generally comprises three system components—a client browser (i.e., consumer **103** accessing a financial institution portal), a bank web server (i.e., financial institution web server) **219**, and a local server associated with the OPS **207** (i.e., a server residing behind financial institution firewalls and operatively coupled to OPS database **307**).

At step **1** in FIG. 19B, the consumer **103** initiates a secure, on-line session with
25 the financial institution **205** via the consumer's web browser for purposes of reviewing his or her transactions, managing his or her accounts, etc. Typically, the consumer will be requesting a display of an account history page comprising a list of prior transactions maintained by the consumer's financial institution. At step **2**, the client browser requests, receives from the financial institution web server **219**, and renders the consumer's
30 transaction display **2000** (discussed below), including the consumer's recent transactions associated with a specific account. At step **3**, after the consumer's transactions display

web page has been rendered, the client browser requests and executes a DOM Injection Loader (i.e., a minimal amount of code inserted into bank's web services code, discussed previously, whose primary purpose is to invoke the operation of an embedded code engine associated with the browser, such as Javascript).

5 At step **4**, the DOM Injection Loader then requests a DOM Injection Script (i.e., more extensive executable code or script stored within the OPS **207** that executes offer insertion or injection functionality, discussed previously) via an asynchronous call to the financial institution web server **219**. The call for the injection script typically includes an identifier of the consumer and a network return pathname (URL) for returning the script
10 and other information (such as the TMO information) from the OPS to the client machine.

 At step **5**, the financial institution web server **219** recognizes that the asynchronous call is intended for the OPS (via a reverse proxy **217** or other similar mechanism) as a script server, and redirects the call to the OPS local server.

15 At steps **6** and **7**, upon receipt of the asynchronous call, the OPS **207** acting as a script server transmits a DOM Injection Script back to the bank's web server **219**, which then returns the DOM Injection Script to the client browser (in response to the browser's asynchronous request) via the network return pathname. At step **8**, the client browser executes the DOM Injection Script for purposes of identifying the particular consumer
20 account being accessed along with the consumer transactions previously rendered to the consumer **103** via the transactions (account history) display.

 At step **9**, after the consumer's account and transactions information have been identified, the DOM Injection Script transmits this information to the financial institution web server **219** via another asynchronous call, and the web server again redirects the call
25 to the OPS local server (step **10**). Stated in other words, the information in the account history display, which either has been or will be displayed to the consumer by the bank web server, is transmitted to the OPS local server so that this information can be used to access the matched offer table **1800** (FIG. 18) and determine if any targeted marketing offers are available for provision to the consumer.

30 At step **11**, and still referring to FIG. 19B, once the OPS **207** receives the asynchronous call redirected from the bank web server, the OPS identifies and

determines which offers should be displayed to the consumer **103** via the financial institution portal based on the particular consumer account and the rendered transactions. In order to determine which offers to transmit back to the bank's web server (and thence to the consumer's browser) for display to a consumer, the OPS searches the matched offer table **1800** in the OPS database **307** and retrieves offers associated with the consumer's account. Also, based on the rendered transactions, the OPS makes a determination as to where offers should eventually be displayed (i.e., "placed") on the consumer's transactions display pursuant to offer placement criteria (typically defined by advertisers **213** during campaign generation).

At steps **12, 13**, once retrieved, the OPS **207** sends the offers to the financial institution web server **219**, which in turn transmits the offers to the consumer's browser via the previously supplied network return pathname. At step **14**, upon receipt of the offers, the client browser continues execution of the DOM Injection Script and inserts (injects or merges) the offers into their appropriate display locations on the consumer's financial institution portal web page in accordance with predetermined placement information (thereby rendering a display similar to that shown in FIG. 21).

As will be understood by those skilled in the art, the specific steps shown in FIG. 19B are presented for illustrative purposes only, and other methods for injecting and displaying offers to consumers are possible according to various embodiments. For example, rather than using a DOM injection process, other cross-site scripting mechanisms may be used. Or, in an alternate embodiment, rather than the client browser making the call for offers, the bank web server **219** makes the call to the local OPS server before the consumer's transactions display web page is ever rendered. While this server-side approach performs generally the same functions as a DOM injection approach, many financial institutions prefer the DOM injection because it enables minimal intrusiveness and restructuring of a financial institution's internal architecture and software. Further, although the preferred embodiment is described in terms of interaction between a client browser (i.e., consumer), a financial institution web server, and an OPS server, it should be understood that various system architectures, script call codes, and other system components may be utilized according to various embodiments. For example, the computer code used for cross-site scripting could be stored and executed on a server

external to the OPS (assuming that appropriate security mechanisms were employed), or all processes could take place within the financial institution computer system, etc. It will thus be appreciated that virtually any mechanism for injecting offers into financial institution transactions displays may be used in association with embodiments of the present system, assuming those mechanisms comply with financial institution security protocols as outlined herein.

FIG. 20 illustrates an exemplary screen shot of a graphical user interface (GUI) associated with a typical exemplary consumer financial institution portal **2000** prior to injection of one or more TMOs into the portal. Through this portal, consumers **103** are able to view and manage their financial institution accounts, review prior transactions and purchases **2009**, and carry out other banking-related functions. As will be understood and appreciated, the GUI shown in FIG. 20 is presented for illustrative purposes only, and the actual format and display of each GUI varies depending on the particular financial institution **205**.

As shown, the exemplary portal display **2000** includes account management tabs **2001**, an account number display **2003**, a transactions details section **2005**, and a transactions summary section **2007** for displaying previous transactions **2009** completed during a given time period. The foregoing display is an example of an account history page, discussed above. The representative consumer portal display **2000** also includes the representative offer-qualifying purchase (OQP) **115** made at Pizza King (discussed for exemplary purposes in other parts of this disclosure). Because the display **2000** shown in FIG. 20 is representative of a conventional and unmodified display from a financial institution **205**, it does not include any TMOs.

FIG. 21 illustrates an exemplary screen shot of a GUI associated with a consumer financial institution portal or display **2100** with multiple exemplary targeted marketing offers (TMOs) **113** displayed therein according to an embodiment of the various inventions described herein. As shown, the portal display **2100** mirrors the display shown in FIG. 20, but with an associated offer **113a** displayed in perceptible association with (i.e. close proximity to) its corresponding OQP **115**. In the display shown, the representative Pizza Pub offer **113a** is displayed immediately under the Pizza King OQP **115**. Also shown in the portal display **2100** are several other TMOs **113b** listed in a side-

bar section of the display. According to one embodiment, these TMOs **113b** are associated with an offer-triggering event (OTE) other than a specific transaction, and are displayed based on some criteria associated with the consumer's spending habits. Alternatively, the offers **113b** may comprise TMOs specifically linked to specific, individual transactions of the consumer, but are merely displayed generally in the portal as opposed to in relative juxtaposition to the transactions themselves. As will be understood, however, embodiments of the present system **215** may display offers and advertisements according to various methods, such as directly under listed transactions, in banner advertisements, pop-up advertisements, etc., and such embodiments are not limited to the type of offer display shown in FIG. 21. As will also be understood, the offers shown in FIG. 21 are a result of the injection process **1900** described previously, in which matched offers are retrieved from the matched offer table **1800** and merged into existing financial institution portal displays to transform the portal displays.

As mentioned previously, the displayed TMOs **113** remain available for viewing as long as the consumer's OQP **115** is available for review, or as long as the OTE applies, or as long as dictated by the advertiser **213** when the offer or campaign was created. As will be appreciated, consumers may receive multiple offers within display **2100** if many of the consumer's transactions satisfy one or more TCS's within the system **215**. Further, as will be understood, there are circumstances in which a given consumer fails to qualify to receive any offers because none of his or her transactions satisfy any offer segment dimensions. In these circumstances, the consumer's financial institution portal remains unchanged, such as that shown in FIG. 20. Additionally, as will be understood and appreciated, offers are displayed to consumers **103** via any viewable portal display, such as those on a mobile device (e.g., cell phone), laptop computer, desktop computer, or any other similar display.

According to another aspect of the disclosed system, targeted marketing offers (TMOs) may be determined in accordance with different dimensions of segmentation, and/or successive and dependent segmentation, with different conditions and rewards provided for different but related segments. In this regard, turn now to FIG. 22 for explanation of an exemplary successive segmentation example.

FIG. 22 is a block diagram illustrating the potential matching of three exemplary offers to consumers **103** associated with three unique targeted consumer segments (TCS's) based on predefined dimensions associated with the segments. As will be understood, FIG. 22 is presented for illustrative purposes only, and the specific segments, offers, and segmentation strategy shown are not intended to limit the scope of the present disclosure in any way. As shown, the exemplary advertiser **213** (i.e., Pizza Pub) has defined three distinct dimensions **2201**, **2203**, **2205** that, when processed according to advertiser specifications, define three distinct segments (and thus correspond to three separate potential offers **2207**, **2209**, **2211**). In the location dimension **2201**, the advertiser has indicated that in order to qualify for an offer associated with the given segment, the transaction must have occurred in California (or, depending on the embodiment, the consumer must live in California, etc.). In the merchant category / merchant name dimension **2203**, the advertiser has indicated that a purchase must have been made with "Pizza King" in order to qualify to receive an offer. In the spend amount dimension **2205**, the advertiser has specified a minimum spend amount of \$25.

As shown, the advertiser **213** has constructed the campaign in such a way that, rather than requiring that all segment dimensions be satisfied, if a consumer **103** satisfies one of the defined dimensions **2201–2205**, but not the others, then the consumer still receives a TMO associated with the particular dimension. For example, if a consumer makes a purchase in California, but the purchase is totally unrelated to Pizza King and was for less than \$25, the consumer will still receive an offer **2207**. As shown in this specific example, however, the offer **2207** is less lucrative than the other offers **2209**, **2211** because the segment associated with the offer is less targeted. However, other offers created by other advertisers may have higher value if less targeted. As will be understood, the offer value is set by an advertiser as desired, and is in no way specifically tied to targeting. Additionally, in the example shown, if another consumer satisfies two dimensions, but not a third, then the consumer will also receive an offer **2209** (albeit a different offer from the first consumer), and so on.

As shown, if all three dimensions are satisfied (based on the Boolean construct "AND"), then the consumer will receive the most lucrative offer **2211**. As will be understood and appreciated, advertisers **213** are free to organize and create campaigns,

segments, and offers as they desire. For example, as opposed to the hierarchically segmented campaign represented in FIG. 22, an advertiser may define its segments in such a way that all segment dimensions must be satisfied by a consumer transaction before an offer is presented to the consumer. Generally, embodiments of the present system enable advertisers to construct campaigns according to various Boolean operators (i.e., AND, OR, If/Then, etc.), hierarchical dependencies, and other strategies as will occur to one of ordinary skill in the art.

As shown, in one embodiment, offers are different and generally become more lucrative as the segment narrows (i.e., as more segment dimensions are satisfied by a consumer transaction), as it is typically more valuable to obtain the business of consumers that have higher propensities to buy advertiser-related items (e.g., pizzas), especially if those consumers are customers of an advertiser competitor **101**. For example, if a given consumer rarely or never buys pizzas (based on prior spending habits), then providing offers to these customers generally has little value to an advertiser **213** that sells pizzas. Further, another reason why offers generally become more valuable as the segment narrows is that providing valuable offers to large segments of consumers can become cost prohibitive to advertisers. However, as will be understood, advertisers are free to organize offers and segments as they see fit, and offers do not have to become more lucrative as a segment narrows. In fact, some advertisers may choose to deliver high value offers to large segments of consumers in the hopes of engendering a large volume of business.

Offer Realization / Redemption

FIG. 23 is a flowchart illustrating an embodiment of a computer-implemented redemption process **2300** within the OPS **207** for determining whether one or more offers have been redeemed by a consumer, according to one aspect of disclosure. The embodiment of the redemption process shown in FIG. 23 also includes the functions of crediting redemptions to each respective financial institution's consumers and providing reporting and billing functions related to redemptions for advertisers. The redemption process **2300** is typically carried out in a particular machine, in this case an OPS **207**

associated with a particular financial institution that employs aspects of the disclosed system.

Starting at step **2301**, an OPS **207** monitors for incoming de-identified consumer transaction data from its respective associated financial institution. If no data is received, then the process **2300** loops to step **2301**, and the OPS again monitors for incoming data (step **2303**). Just as with other recurring processes discussed herein, steps **2301**, **2303** are repeated either continuously or on a recurring, periodic basis.

If de-identified consumer transaction data is received, then the data is stored within the de-identified consumer transaction table **1700** within the OPS database **307** (step **2305**). If any of the merchant names in the de-identified consumer transaction data cannot be identified, the names are transmitted to the OMS for merchant identification (see FIG. 5 and associated discussion) before any redemptions are determined for the specific transactions. Next, the OPS accesses the matched offer table **1800** from within the OPS database **307**, compares the de-identified consumer transaction data (using the validated merchant name(s)) to the data in the matched offer table, and determines whether one or more previously-placed TMOs have been redeemed by one or more consumers (steps **2307**, **2309**). In one embodiment, step **2309** is performed by a predetermined algorithm that compares each transaction received from the financial institution (for example, a list of transactions such as those shown in table **1700**) for a particular consumer with that consumer's previously-placed offer(s) in the matched offer table **1800** to determine if any of the offer criteria of the offers displayed to the consumer have been satisfied. As described elsewhere herein, each offer generally defines one or more offer criteria necessary to redeem the offer, such as "\$10 off any purchases of \$25 or more made at a Pizza Pub in June". Thus, if one of the transactions received from the financial institution meets the defined criteria of an offer associated with the given consumer's account, then the offer is defined as redeemed. In one embodiment, each consumer's matched offers are stored in a separate matched offer table or file **1800** to simplify the comparison process of step **2309** (as well as the previously-discussed injection process **1900**).

If no offers are determined redeemed (based on the results of step **2309**), then the redemption process **2300** for the particular set of de-identified consumer transaction data

is ended (step **2311**). If, however, an offer is determined redeemed, then OPS utilizes a pre-determined conversion algorithm to automatically convert the redemption value, as stipulated by the originally-presented TMO **113**, into the appropriate rewards type (if different from cash) for the account associated with the RQP **117** in which the offer was redeemed (step **2313**). For example, a financial institution **205** may dictate that \$1.00 in offer value is equivalent to 3 airline miles. Thus, if an offer value of \$10.00 was redeemed, the consumer account will receive 30 airline miles. Once the reward value has been converted (if necessary), the redemption is recorded by the OPS **207** in an offer redemption table **2500** (see FIG. 25 and its associated discussion) (step **2315**) in the OPS database **307**. Depending on the particular embodiment, details associated with the RQP are recorded, such as the time and/or date of the RQP, the specific advertiser location at which the RQP occurred, and other similar data (see exemplary data structure **2500**). In one embodiment, the OPS will provide its associated financial institution(s) with a report or notification of all RQPs having occurred within a defined period of time, which the financial institution will in turn utilize to issue offer redemption payment(s) to the appropriate consumer account(s) (step **2317**).

In general, the financial institution **205** is directly reimbursed for the value of each reward paid to a consumer by the TMS, which in turn receives payment from advertisers for all redeemed offers.. Additionally, in one embodiment, an operator of the TMS charges advertisers a fee to create and execute targeted marketing campaigns. When a consumer **103** subsequently logs in to his or her financial institution portal **2100** to view his or her account activity, the OPS **207** performs a process similar to the injection process **1900** shown in FIG. 19, although rather than merging matched offers into the portal display, the OPS injects a notice or icon **119** indicating that the consumer has received an ORP **225** (see FIG. 27 and associated discussion).

As will be understood and appreciated by one having ordinary skill in the art, in order to redeem offers according to discussed embodiments of the present system **215**, a consumer **103** is not required to cut out and use any coupons, print out any advertisements, enter in any promotion codes, etc. (although, an advertiser can mandate such coupon usage, if desired). Generally, all that is required is for a consumer to make a RQP **117** using a payment mechanism associated with the account in which the original

OQP **115** was made. Once a consumer makes such a RQP, the associated redemption payment is automatically issued to the consumer's account, as described herein.

FIG. 24 is an exemplary offer impression table **2400** illustrating recorded offers that have been viewed by consumers **103** based on consumer log-ins to financial
5 institution portals. FIG. 25 is an exemplary offer redemption table **2500** illustrating offers that have been redeemed by consumers based on redemption-qualifying purchases **117**. As will be understood, tables **2400**, **2500** are presented for illustrative purposes only, and embodiments of the present system **215** are not limited to use of the specific data tables shown. Each of the tables **2400**, **2500** comprises a plurality of entries
10 representing offer impressions and offer redemptions, respectively, each entry comprising a plurality of data categories or fields.

As shown, the each entry in the tables **2400**, **2500** includes four data categories or fields: offer identifier (ID) **2401**, **2501**, account global unique identifier (GUID) **2403**, **2503**, date (either of impression or redemption) **2405**, **2505**, and time (either of
15 impression or redemption) **2407**, **2507**. As will be understood, however, the data categories or files are not limited to the fields shown, and other embodiments include additional fields as will occur to one of ordinary skill in the art. Additionally, in one embodiment, not all data shown in tables **2400**, **2500** is recorded (e.g., time of impression or redemption is not necessarily recorded). As will also be understood, although only
20 five data entries are shown in table **2400** (i.e., entries corresponding to GUIDs 12932, 49830, etc.), and three data entries are shown in table **2500** (i.e., entries corresponding to GUIDs 12932, 80204, etc.), actual data tables constructed in accordance with aspects of the present system may include a virtually unlimited number of entries corresponding to a plurality of impressions and/or redemptions recorded by embodiments of the present
25 TMS **215**.

As shown, the offer ID fields **2401**, **2501** and account GUID fields **2403**, **2503** correspond to similar fields and data entries shown and discussed previously in conjunction with FIGS. 13, 16–18, etc. These fields identify the particular TMOs that are either viewed or redeemed by consumers, as well as the corresponding consumer
30 accounts associated with the offers. The date fields **2405**, **2505** and time fields **2407**, **2507** indicate the specific dates and times that offers are viewed and/or redeemed,

respectively. Again, the data fields referred to herein are not limited by the specific fields shown in FIGS. 24 and 25, and other data items are contemplated, such as the number of times each offer is viewed (i.e., number of impressions), specific advertiser location at which an offer is redeemed, the spend amount associated with each redemption, and other similar data fields. Generally, the data shown in tables **2400**, **2500** is utilized for purposes of issuing redemptions to consumers. Further, according to one embodiment, the data shown in tables **2400**, **2500** is aggregated (i.e., see campaign results table **2600**), and used for reporting campaign performance to advertisers. Additionally, as shown, the representative impression and redemption **2409**, **2509** correspond to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

FIG. 26 is an exemplary campaign results table **2600** illustrating aggregated offer performance data (i.e., offer impressions and redemptions). The aggregated offer performance data comprises a plurality of individual entries of results for a targeted marketing offer, each entry including a plurality of data fields. As shown, each entry in the table **2600** includes three data categories or fields: offer identifier (ID) **2601**, offer impressions **2603**, and offer redemptions **2605**. These fields thus relate specific results of offer impressions and offer redemptions with a particular identified targeted marketing offer, within a campaign as delimited by means not shown, such as a particular reporting period, or for a particular advertiser, etc. As will be understood, however, the data categories or files are not limited to the fields shown, and other embodiments include additional fields as will occur to one of ordinary skill in the art. As will also be understood, although only three data entries are shown in table **2600** (i.e., entries corresponding to offer IDs 99999, 40568, etc.), actual data tables constructed in accordance with aspects of the present system may include a virtually unlimited number of entries corresponding to campaign results data **301** recorded by embodiments of the present TMS **215**.

As shown, offer impressions field **2603** illustrates exemplary, aggregated offer impressions associated with specific offers. Offer redemptions field **2605** illustrates exemplary, aggregated offer redemptions associated with specific offers. According to one embodiment, this data is aggregated within each OPS **207** and transmitted to the OMS **211** for reporting to advertisers **213**. As will be understood, various other types of

data is included in the campaign results table **2600** according to various embodiments, including the number of times an offer is “clicked” (i.e., accessed with a mouse or cursor) for additional information by a consumer within a financial institution portal, information entered by a consumer into a data entry field associated with an offer, etc. Additionally,
5 as shown, the representative results entry **2607** corresponds to the Pizza Pub / Pizza King example referenced in other parts of this disclosure.

FIG. 27 illustrates an exemplary screen shot of a GUI associated with a consumer financial institution portal **2700** with targeted marketing offers (TMOs) **113**, a redemption-qualifying purchase (RQP) **117**, and a RQP icon **119** displayed therein
10 according to an embodiment of the present TMS **215**. As shown, the portal display **2700** mirrors the display shown in FIG. 21, but with the associated RQP and RQP icon indicated accordingly. The exemplary RQP **117** satisfies the criteria defined in the original exemplary TMO **113a** (i.e., purchase made at a Pizza Pub, in June, for more than \$25), and thus the representative consumer account shown is credited the \$10 dictated in
15 the offer (see FIG. 28 for exemplary rewards page) as constituting an offer redemption payment (ORP) **225**.

As mentioned previously, because the RQP is carried out using a payment mechanism associated with the account with which the original OQP was made (as evidenced by the fact that the RQP is listed on the same account summary web page as
20 the OQP), the OPS **207** automatically recognizes the RQP and instructs the financial institution **205** to pay an associated redemption payment or reward to the consumer **103**. According to one embodiment of the present system **215**, rewards (i.e., ORPs **225**) are indicated on a separate rewards page (e.g., FIG. 28). In other embodiments, however, ORPs are indicated in the amount column **2701** of a transaction summary **1707** (e.g., the
25 amount for the representative RQP **117** would read \$18.93 instead of \$28.93), or listed underneath the RQP itself, or indicated via some other similar display mechanism.

As shown in FIG. 27, a RQP icon **119** is provided in relative juxtaposition with the RQP **117**, thus indicating that the given transaction is in fact a RQP, and that an associated ORP **225** has been or will be issued to the particular consumer’s account. The
30 exemplary RQP icon is shown in FIG. 27 as a circle with a dollar sign contained therein, but other types of icons and icon images are contemplated according to various

embodiments of the present system, and can be configured uniquely for each financial institution. Accordingly, aspects of the present system are not limited by the specific example icon or display format shown. Further, in the embodiment shown, when a consumer **103** hovers a cursor over the RQP icon **119**, or clicks or otherwise interacts with the icon via the financial institution portal **2700**, a pop-up redemption message **2703** is displayed to the consumer thanking the consumer for the purchase **117** and describing the savings or reward that was issued to the consumer. As will be understood and appreciated, the icon **119** and redemption message **2703** are presented for illustrative purposes only, and the formats and overall use of these elements may vary according to various embodiments of the present system. Further, some embodiments do not use a RQP icon **119** or a redemption message **2703**, and merely issue automatic redemptions or rewards to consumers' accounts. Additionally, for TMOs that do not present possible redemptions, and are merely advertisements for a particular advertiser, no ORP is issued and no RQP icon is shown, as there is no potential redemption available with the TMO.

FIG. 28 illustrates an exemplary screen shot of a GUI associated with a consumer financial institution portal displaying a representative rewards page **2800** according to an embodiment of the present TMS **215**. As will be understood and appreciated, the rewards page **2800** may be incorporated into a financial institution's existing, conventional account rewards page, or may comprise a separate page only displaying rewards associated with embodiments of the TMS **215**. As will also be understood, regardless of the format of the rewards page, or any other exemplary screen shot or web page discussed herein, each page integrates seamlessly and adapts to the particular online format of each respective financial institution **205**.

As shown, rewards tab **2001** is selected, indicating a rewards display page **2800** within the consumer financial institution portal. The rewards page **2800** includes a rewards summary section **2801** listing recent ORPs **225** issued to the particular consumer **103**. Exemplary reward **2803** indicates the \$10 cash back received in association with the Pizza Pub transaction (shown and discussed previously). Although the redeemed rewards **225** are shown in FIG. 28 as credits or cash back, other aspects of the present system incorporate other forms of rewards, such as airline miles, points, etc. (discussed previously). In one embodiment, the consumer **103** has the option of redeeming the

displayed rewards (i.e., receiving a paper check or a credit to one of the consumer's accounts). In another embodiment, the rewards are automatically issued to the consumer's account in the form of a credit or otherwise. Typically, the rewards associated with TMOs according to embodiments of the present TMS **215** are handled in a similar manner as conventional rewards programs run by financial institutions, and, generally, each financial institution has discretion as to how rewards are issued.

Similar to the rewards page **2800** shown in FIG. 28, some embodiments of the present system **215** incorporate an offer(s) detail page (not shown) that lists or displays all pending and/or past offers presented to a given consumer **103**, as well as the status of those offers (i.e., available, redeemed, expired, etc.). In the offer(s) detail page, a consumer has the ability to view his or her TMOs **113** collectively in a centralized location and across many accounts rather than separately under each account page and OQP **115**. An offer(s) detail page is especially useful in circumstances in which a consumer has many transactions associated with a given account, or has many accounts with one financial institution **205**. By collecting the offers on one page, the consumer is able to conveniently and quickly review all available offers associated with his or her financial institution accounts, as well as keep track of prior redemptions.

As mentioned previously, as consumers **103** view and/or redeem offers, these offer impressions and/or redemptions are recorded by each OPS **207**, aggregated, and subsequently transmitted to the OMS **211** for reporting and billing purposes. Advertisers **213** are able to view such campaign results data **301** and assess the overall success (i.e., performance) of their advertising campaigns. Through this data, advertisers are able to determine which aspects of campaigns and offers generate high response rates and consumer interaction, and which do not. This information is utilized to shape future campaigns and offers in highly targeted ways to produce maximum consumer response. Again, this highly valuable form of marketing is based on consumer spending habits, yet also accomplished without disclosure of confidential or private consumer information to any outside parties.

FIG. 29 illustrates an exemplary OMS hardware architecture **2900** upon which an embodiment of the OMS may be implemented as herein described. FIG. 30 illustrates an exemplary OPS hardware architecture **3000** upon which an embodiment of the OPS may

be implemented as herein described. As shown in FIGS. 29–30 and described previously herein, the hardware components of the OMS **211** and OPS **207** are specifically designed to carry out the particular functions and processes of the TMS **215** (i.e., they are particular machines). As will be understood and appreciated, the hardware representations **2900**, **3000** are shown for illustrative purposes only, and other hardware variations will occur to those of ordinary skill in the art. Further, the hardware implementations shown in FIGS. 29–30 do not necessarily include representations of detailed hardware connections via firewall(s) **330**, reverse proxies **217**, and other system architecture components shown and described previously herein.

10 As shown, both the OMS and OPS include a bus **2901**, **3001** or other communication mechanism for communicating information, and one or more processors **2903**, **3003** coupled with the bus for processing information. The OMS and OPS each also include a main memory **2905**, **3005**, such as a random access memory (RAM) or other similar dynamic storage device, coupled to the bus **2901**, **3001** for storing
15 instructions and information to be executed by the processor(s) **2903**, **3003**. In addition, main memory **2905**, **3005** may be used for storing temporary variables or other intermediate information during execution of instructions to be executed by the processor(s). As shown, the OMS and OPS both include a read only memory (ROM) **2907**, **3007** or other similar static storage device coupled to the bus for storing static
20 information and instructions for the processor(s). Also included within the OMS and OPS are OMS database **305** and OPS database **307**, respectively, which are coupled to their respective buses and used for storage and retrieval of various types of system data as previously described. In one embodiment, as shown previously in FIG. 3, the OPS database **307** (and database server) reside separate and apart from an OPS web server,
25 such that the OPS database resides behind one or more additional financial institution firewalls **330**.

The OMS and OPS hardware systems **2900**, **3000**, respectively, both include a communication interface **2909**, **3009**, coupled to the communication bus **2901**, **3001**, which provide two-way data communication coupling to a network link **2911**, **3011** that
30 is connected to a local area network (LAN) **2913**, **3013**. The communication interface **2909**, **3009** generally comprises an Ethernet or similar network interface card, a digital

subscriber line (DSL), or other similar interface. The network link **2911**, **3011** may comprise a wireless link, hard-wired link, or other similar link. Additionally, for ease of reference, firewall(s), reverse proxies **217**, DMZ(s), and other ancillary components are not shown in FIGS. 29–30, but it will be understood that these components comprise a
5 part of the overall hardware architecture of embodiments of the present system.

For the embodiment of the OMS **211** shown in FIG. 29, the network link provides data communication through the LAN **2913** to the OMS advertiser portal **900** and each OPS **207** (via the Internet **209**), and the system operator management portal **2915**. Thus, all information transmitted to and from the OPS, or advertisers via the OMS advertiser
10 portal, or system operators, is transmitted via the communication link **2911**. The system operator management portal **2915** provides access by a system operator or manager to the overall targeted marketing system (TMS) **215**. According to various embodiments and as will be understood, the system operator manages system performance, predefines system parameters, updates system software, and provides a host of other system management
15 functions. For the embodiment of the OPS **207** shown in FIG. 30, the network link **3011** provides data communication through the LAN **3013** to the OMS **211** (via the Internet **209**) and a respective financial institution web server **219** (and further to a financial institution transaction processor **220**, not shown). Again, the hardware components and connections illustrated in FIGS. 29–30 are presented for illustrative purposes only, and
20 other system configurations are possible according to various embodiments of the present inventions.

The foregoing description of the exemplary embodiments has been presented only for the purposes of illustration and description and is not intended to be exhaustive or to limit the inventions to the precise forms disclosed. Many modifications and variations
25 are possible in light of the above teaching.

The embodiments were chosen and described in order to explain the principles of the inventions and their practical application so as to enable others skilled in the art to utilize the inventions and various embodiments and with various modifications as are suited to the particular use contemplated. Alternative embodiments will become apparent
30 to those skilled in the art to which the present inventions pertain without departing from their spirit and scope. Accordingly, the scope of the present inventions is defined by the

appended claims rather than the foregoing description and the exemplary embodiments described therein.

5

CLAIMS

What is claimed is:

1. A targeted marketing system operative to deliver a targeted marketing offer to a consumer of a financial institution via an online portal associated with a financial institution computer system, the online portal operative to provide a display of a consumer's financial transactions during a viewing session, comprising:

an offer management system operative for receiving input from an advertiser corresponding to the terms of a targeted marketing offer to be provided to a consumer of the financial institution in response to the identification of an offer triggering event by the consumer, and for delivering campaign data corresponding to the targeted marketing offer and to the offer triggering event as an output to an offer placement system; and

an offer placement system operative in cooperation with the financial institution computer system to receive the campaign data from the offer management system, determine the occurrence of an offer triggering event by the consumer, and deliver information corresponding to the targeted marketing offer to the consumer during the online session with the online portal.

2. The system of claim 1, wherein the offer triggering event is an offer qualifying transaction conducted by the consumer, as reflected in transaction data maintained by the financial institution computer system.

3. The system of claim 2, wherein the campaign data includes information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to transaction data of the financial institution corresponding to transactions conducted by the consumer to identify a particular offer qualifying transaction conducted by the consumer.

4. The system of claim 3, wherein the offer placement system is operative to display selected targeted marketing offer information to the consumer in association with the display of information corresponding to the particular offer qualifying transaction provided by the online portal.

5. The system of claim 2, wherein the delivery of the targeted marketing offer information to the consumer comprises the display of predetermined offer display information in association with the display of information corresponding to the offer qualifying transaction.

6. The system of claim 5, wherein the predetermined offer display information comprises one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

7. The system of claim 5, wherein the predetermined offer display information is displayed in perceptible visual proximity to information of the offer qualifying transaction.

8. The system of claim 7, wherein the predetermined offer display information is displayed immediately below the offer qualifying transaction on a list of the consumer's transactions.

9. The system of claim 7, wherein the predetermined offer display information is displayed in a field in nearby proximity to the offer qualifying transaction on a list of the consumer's transactions.

10. The system of claim 1, wherein the offer triggering event is a group of transactions conducted by the consumer that collectively satisfy predetermined criteria defined by the advertiser for delivery of the targeted marketing offer to the consumer.

11. The system of claim 1, wherein the offer triggering event comprises satisfaction of segment criteria associated with a predetermined market segment based on one or more transactions conducted by the consumer.

12. The system of claim 1, wherein the offer triggering event is an online session by the consumer.

13. The system of claim 12, wherein the offer placement system is operative to select predetermined targeted marketing offer information for a particular consumer, and to display the predetermined targeted marketing offer information to the consumer in a predetermined placement in the online portal.

14. The system of claim 1, wherein the offer management system comprises:
a database for storing targeted marketing campaign data, the targeted marketing campaign data comprising advertiser campaign data associated with a particular advertiser, segment data corresponding to at least one market segment defining properties of transactions that qualify for receiving a targeted marketing offer of the advertiser, and offer data corresponding to at least one targeted marketing offer;

a component for providing a marketing campaign interface for the advertiser, the marketing campaign interface allowing the advertiser to define campaign data corresponding to a predetermined marketing campaign by (a) display of information indicating potential market segments definable by the advertiser, (b) advertiser entry of information for defining a predetermined market segment, and (c) advertiser entry of information for defining a predetermined targeted marketing offer for delivery to the predetermined market segment; and

a component for outputting the campaign data to the financial institution for delivery of the predetermined targeted marketing offer to consumers of the financial institution within the predetermined market segment,

whereby consumers in the predetermined market segment are provided with a display of the predetermined targeted marketing offer during an online session comprising a display of transactions of consumers via the online portal of the financial institution.

15. The system of claim 14, wherein the marketing campaign interface is hosted on a web-accessible server, and comprises a web-based user interface accessible by a plurality of advertisers that define and manage a plurality of marketing campaigns.

16. The system of claim 14, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the predetermined targeted marketing offer, and campaign delimiting

information, for a plurality of advertisers and a plurality of campaigns, for a plurality of financial institutions.

17. The system of claim 16, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, a campaign name, a predetermined market segment, location information, merchant information, a spend amount.

18. The system of claim 14, wherein the offer management system stores campaign data comprising segment data corresponding to a plurality of predetermined market segments and offer data comprising a plurality of predetermined targeted marketing offers.

19. The system of claim 18, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information for each predetermined market segment.

20. The system of claim 19, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount, date(s) of availability.

21. The system of claim 18, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information associated with each predetermined targeted marketing offer.

22. The system of claim 21, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date, an offer type.

23. The system of claim 21, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information.

24. The system of claim 1, wherein the offer management system is remotely located from the financial institution computer system.

25. The system of claim 1, wherein the offer management system is remotely located from the offer placement system.

26. The system of claim 1, wherein the campaign data is provided electronically from the offer management system to the offer placement system.

27. The system of claim 1, wherein the campaign data is stored at the offer management system and provided to the offer placement system.

28. The system of claim 1, wherein the system stores offer redemption data corresponding to information indicating that a particular consumer has engaged in a redemption qualifying transaction that qualifies for a reward associated with the targeted marketing offer displayed to the particular consumer.

29. The system of claim 28, wherein the offer redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to the particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward amount, a reward type.

30. The system of claim 1, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the consumer engaging in a redemption qualifying transaction having predetermined conditions, and

further comprising a component for delivering the predetermined reward to the consumer in response to a determination, by processing of subsequent transaction data of the financial institution, that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

31. The system of claim 30, wherein the system provides for a plurality of related predetermined market segments associated with a marketing campaign, whereby different reward amounts are available for different but related predetermined market segments.

32. The system of claim 1, wherein the offer management system comprises:
a processor;
an interface connected for secure communications with the offer placement system;
a web interface for online user interaction with advertisers, operative for displaying information to advertisers for use in creating targeted marketing campaigns and receiving information from advertisers for use in creating targeted marketing campaigns; and
a database for storing campaign data corresponding to targeted marketing campaigns created by advertisers.

33. The system of claim 1, wherein the offer placement system comprises:
a database for storing targeted marketing campaign data and transaction data records, the targeted marketing campaign data including one or more targeted marketing offers;
a component for receiving campaign data associated with an advertiser and storing the campaign data in the database;
a component for receiving transaction data from the financial institution corresponding to financial transactions conducted by the consumer and storing the transaction data in the database;
a component for matching the transaction data in the database with the campaign data to identify an offer triggering event of a particular consumer and for storing information associated with the offer triggering event as matched offer data, the matched offer data including an identifier of a predetermined targeted marketing offer;
a component for delivering the targeted marketing offer via the online banking portal to the particular consumer in response to access by the particular consumer of information corresponding to the consumer's financial transactions, via the display of a targeted marketing offer via the online banking portal.

34. The system of claim 33, wherein the transaction data is de-identified by a transaction system of the financial institution computer system to obtain de-identified transaction data records from which personal information of the consumer has been removed.

35. The system of claim 34, wherein the de-identified transaction records include one or more of the following data items: an account global identifier (GUID) associated with each consumer, a transaction identifier (ID) associated with each transaction of a consumer, location information, merchant information, a transaction amount, a rewards type.

36. The system of claim 33, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with the advertiser providing the targeted marketing offer, and campaign delimiting information.

37. The system of claim 36, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, location information, merchant information, spend amount.

38. The system of claim 33, wherein the campaign data comprises segment data and offer data.

39. The system of claim 38, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information.

40. The system of claim 39, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

41. The system of claim 38, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information.

42. The system of claim 41, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date.

43. The system of claim 41, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information, offer date information.

44. The system of claim 33, wherein matched offer data includes one of more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of the particular consumer associated with an offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

45. The system of claim 44, wherein the offer identifier is used to retrieve information for display to the consumer corresponding to a specific offer applicable to the offer triggering event from the campaign data.

46. The system of claim 1, wherein the offer placement system is physically co-located with the financial institution computer system associated with the financial institution and utilizes network security protections of the financial institution, and receives de-identified transaction data from a transaction system associated with the financial institution computer system.

47. The system of claim 1, wherein the offer placement system is one of a plurality of offer placement systems operative in cooperation with the financial institution computer system.

48. The system of claim 1, wherein the system stores offer impression data corresponding to information indicating that a predetermined targeted marketing offer has been displayed to a particular consumer, for use in determining the number of occurrences of the predetermined marketing offer to consumers.

49. The system of claim 1, wherein the offer placement system comprises:

a processor;
an interface connected for secure communications with the financial institution computer system, to receive data corresponding to transactions conducted by consumers;
an interface connected for secure communications with the offer management system;
a database for storing campaign data received from the offer management system;
a database for storing targeted marketing offer information;
a database for storing offer triggering event information; and
a program component operative to access said databases to carry out the functions of the offer placement system in response to receipt of information from the financial institution computer system.

50. The system of claim 1, wherein the financial institution computer system comprises the financial institution online portal and a financial institution transaction processing system.

51. A computer-implemented method for delivering a targeted marketing offer to a consumer of a financial institution via an online portal associated with the financial institution, the online portal operative to provide a display of a consumer's financial transactions during a viewing session, comprising the steps of:

receiving input from an advertiser corresponding to the terms of a targeted marketing offer to be provided to a consumer of the financial institution in response to the identification of an offer triggering event by the consumer;

generating campaign data corresponding to the targeted marketing offer and to the offer triggering event;

providing the campaign data for use in connection with operations of the online portal of the financial institution;

determining the occurrence of the offer triggering event by the consumer; and

delivering information corresponding to the targeted marketing offer to the consumer by display to the consumer of selected targeted marketing offer information to the consumer via the online portal.

52. The method of claim 51, wherein the offer triggering event is an offer qualifying transaction conducted by the consumer, as reflected in transaction data maintained by the financial institution.

53. The method of claim 52, wherein the campaign data includes information corresponding to an offer qualifying transaction, and further comprising the step of comparing the offer qualifying transaction information in the campaign data to transaction data of the financial institution corresponding to transactions conducted by the consumer to identify a particular offer qualifying transaction conducted by the consumer.

54. The method of claim 53, further comprising the step of displaying the selected targeted marketing offer information to the consumer in association with the display of information corresponding to the particular offer qualifying transaction provided by the online portal.

55. The method of claim 52, wherein the display of selected targeted marketing offer information comprises the display of predetermined offer display information in association with the display of information corresponding to the offer qualifying transaction.

56. The method of claim 55, wherein the predetermined offer display information comprises one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

57. The method of claim 55, wherein the predetermined offer display information is displayed in perceptible visual proximity to information of the offer qualifying transaction.

58. The method of claim 55, wherein the predetermined offer display information is displayed immediately below the offer qualifying transaction on a list of the consumer's transactions.

59. The method of claim 55, wherein the predetermined offer display information is displayed in a field in nearby proximity to the offer qualifying transaction on a list of the consumer's transactions.

60. The method of claim 51, wherein the offer triggering event is a group of transactions conducted by the consumer that collectively satisfy predetermined criteria defined by the advertiser for delivery of information corresponding to the targeted marketing offer to the consumer.

61. The method of claim 51, wherein the offer triggering event comprises satisfaction of segment criteria associated with a predetermined market segment based on one or more transactions conducted by the consumer.

62. The method of claim 51, wherein the offer triggering event is an online session by the consumer.

63. The method of claim 62, further comprising the steps of selecting predetermined targeted marketing offer information for a particular consumer, and displaying the predetermined targeted marketing offer information to the particular consumer in a predetermined placement in the online portal.

64. The method of claim 51, wherein the input from the advertiser is received at an offer management system.

65. The method of claim 64, wherein the offer management system comprises:
a processor;
a web interface for online user interaction with advertisers, operative for displaying information to advertisers for use in creating targeted marketing campaigns and receiving information from advertisers for use in creating targeted marketing campaigns; and
a database for storing campaign data corresponding to targeted marketing campaigns created by advertisers.

66. The method of claim 64, wherein the offer management system comprises a database for storing campaign data, the campaign data comprising advertiser campaign data associated with a particular advertiser, segment data corresponding to at least one market segment defining properties of transactions that qualify for receiving a targeted marketing offer of the advertiser, and offer data corresponding to at least one targeted marketing offer, and further comprising the steps of:

receiving aggregated consumer transaction data from the financial institution;
providing a marketing campaign interface for an advertiser, the marketing campaign interface allowing the advertiser to define campaign data corresponding to a predetermined marketing campaign by (a) display of information derived from the aggregated consumer transaction data indicating potential market segments definable by the advertiser, (b) advertiser entry of information for defining a predetermined market segment, and (c) advertiser entry of information for defining a predetermined targeted marketing offer for delivery to the predetermined market segment; and

outputting the campaign data to the financial institution for delivery of the predetermined targeted marketing offer to consumers of the financial institution within the predetermined market segment,

whereby consumers in the predetermined market segment are provided with a display of the predetermined targeted marketing offer during an online session comprising a display of transactions of consumers via the online portal of the financial institution.

67. The method of claim 66, wherein the marketing campaign interface is hosted on a web-accessible server, and comprises a web-based user interface accessible by a plurality of advertisers that define and manage a plurality of marketing campaigns.

68. The method of claim 66, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the predetermined targeted marketing offer, and campaign delimiting information, for a plurality of advertisers and a plurality of campaigns, for a plurality of financial institutions.

69. The method of claim 68, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, a campaign name, a predetermined market segment, location information, merchant information, a spend amount.

70. The method of claim 66, wherein the offer management system stores campaign data comprising segment data corresponding to a plurality of predetermined market segments and offer data comprising a plurality of predetermined targeted marketing offers.

71. The method of claim 70, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information for each predetermined market segment.

72. The method of claim 71, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount, date(s) of availability.

73. The method of claim 70, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information associated with each predetermined targeted marketing offer.

74. The method of claim 73, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date, an offer type.

75. The method of claim 73, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information.

76. The method of claim 64, wherein the offer management system is remotely located from a system of the financial institution that provides the online portal.

77. The method of claim 64, wherein the campaign data is provided electronically from the offer management system to a separate offer placement system operative in association with the online portal associated with the financial institution.

78. The method of claim 77, wherein the campaign data is generated at the offer management system and provided electronically to the offer placement system.

79. The method of claim 66, wherein the aggregated consumer transaction data comprises the total number of consumers associated with each potential market segment.

80. The method of claim 51, further comprising the step of providing a reward to a consumer in response to receipt of information indicating that a particular consumer has engaged

in a redemption qualifying transaction that qualifies for a reward associated with the targeted marketing offer displayed to the consumer.

81. The method of claim 80, further comprising the step of storing offer redemption data corresponding to the reward and to characteristics of the redemption qualifying transaction that qualifies for receipt of the reward.

82. The method of claim 81, wherein the redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to a particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward amount, a reward type.

83. The method of claim 51, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the consumer engaging in a redemption qualifying transaction having predetermined conditions, and

further comprising the step of delivering the predetermined reward to the consumer in response to a determination, by processing of subsequent transaction data of the financial institution, that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

84. The method of claim 83, wherein the campaign data includes information identifying a plurality of related predetermined market segments associated with a marketing campaign, and further comprising the step of:

delivering different predetermined reward amounts for different predetermined market segments.

85. The method of claim 51, wherein the step of delivering information corresponding to the targeted marketing offer is carried out by an offer placement system, wherein the step comprises providing the targeted marketing offer information for insertion by the online portal into a display of the consumer's financial transactions.

86. The method of claim 85, wherein the offer placement system is physically co-located with a financial institution computer system associated with the financial institution and utilizes network security protections of the financial institution, and receives de-identified transaction data from a transaction system associated with the financial institution computer system.

87. The method of claim 85, wherein the offer placement system is one of a plurality of offer placement systems operative in cooperation with the financial institution.

88. The method of claim 85, wherein the offer placement system comprises:

- a processor;
- an interface connected for secure communications with a financial institution computer system, to receive data corresponding to transactions conducted by consumers;
- an interface connected for secure communications with an offer management system that provides campaign data;
- a database for storing campaign data received from the offer management system;
- a database for storing targeted marketing offer information;
- a database for storing offer triggering event information; and
- a program component operative to access said databases to carry out the functions of the offer placement system in response to receipt of information from the financial institution computer system.

89. The method of claim 85, wherein the offer placement system comprises a database for storing campaign data and transaction data records, the campaign data including one or more targeted marketing offers, and further comprising the steps of:

- receiving campaign data associated with an advertiser and storing the campaign data in the database;
- receiving transaction data from the financial institution corresponding to financial transactions conducted by the consumer;
- storing the transaction data in the database;
- matching the transaction data in the database with the campaign data to identify an offer triggering event of a particular consumer;

storing information associated with the offer triggering event as matched offer data, the matched offer data including an identifier of a predetermined targeted marketing offer; and delivering the targeted marketing offer via the online portal associated with the financial institution to the particular consumer in response to access by the particular consumer of information corresponding to the consumer's financial transactions, via the display of a targeted marketing offer via the online portal.

90. The method of claim 89, wherein the transaction data is de-identified by a transaction system of the financial institution to obtain de-identified transaction data records from which personal information of the consumer has been removed, prior to the matching step.

91. The method of claim 90, wherein the de-identified transaction records include one or more of the following data items: an account global identifier (GUID) associated with each consumer, a transaction identifier (ID) associated with each transaction of a consumer, location information, merchant information, a transaction amount, a rewards type.

92. The method of claim 89, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the targeted marketing offer, and campaign delimiting information.

93. The method of claim 92, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, location information, merchant information, spend amount.

94. The method of claim 89, wherein the campaign data comprises segment data and offer data.

95. The method of claim 94, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information.

96. The method of claim 95, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

97. The method of claim 94, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information.

98. The method of claim 97, wherein the offer defining information comprises one or more of the following data items: an offer amount, an offer start date, an offer end date.

99. The method of claim 97, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information, offer date information.

100. The method of claim 89, wherein matched offer data includes one or more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of the particular consumer associated with an offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

101. The method of claim 100, wherein the offer identifier is used to retrieve information for display to the consumer corresponding to a specific offer applicable to the offer triggering event from the campaign data.

102. The method of claim 51, further comprising the step of storing offer impression data corresponding to information indicating that a predetermined targeted marketing offer has been displayed to a particular consumer, for use in determining the number of occurrences of the predetermined targeted marketing offer to consumers.

103. A targeted marketing offer placement system operative in conjunction with a computer system of a financial institution to provide a targeted marketing offer to a consumer via an online banking portal associated with the financial institution, comprising:

a database for storing campaign data, the campaign data including one or more targeted marketing offers;

a component for receiving campaign data associated with an advertiser and storing the campaign data in the database;

a component for determining the occurrence of an offer triggering event caused by a particular consumer in an online session with the online banking portal;

a component for identifying a predetermined targeted marketing offer for the particular consumer in response to the offer triggering event; and

a component for delivering information corresponding to the targeted marketing offer to the particular consumer during the online session via the online banking portal.

104. The system of claim 103, wherein the offer triggering event is an offer qualifying transaction conducted by the particular consumer, as reflected in transaction data maintained by the financial institution computer system.

105. The system of claim 104, wherein the campaign data includes information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to transaction data of the financial institution corresponding to transactions conducted by the particular consumer to identify a particular offer qualifying transaction conducted by the particular consumer.

106. The system of claim 105, wherein the offer placement system is operative to display selected targeted marketing offer information to the particular consumer in association with the display of information corresponding to the particular offer qualifying transaction provided by the online banking portal.

107. The system of claim 104, wherein the delivery of information corresponding to the targeted marketing offer comprises the display of predetermined offer display information in association with display of information corresponding to the offer qualifying transaction.

108. The system of claim 107, wherein the predetermined offer display information comprises one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

109. The system of claim 107, wherein the predetermined offer display information is displayed in perceptible visual proximity to information of the offer qualifying transaction.

110. The system of claim 109, wherein the predetermined offer display information is displayed immediately below the offer qualifying transaction on a list of the particular consumer's transactions.

111. The system of claim 109, wherein the predetermined offer display information is displayed in a field in nearby proximity to the offer qualifying transaction on a list of the particular consumer's transactions.

112. The system of claim 103, wherein the offer triggering event is a group of transactions conducted by the particular consumer that collectively satisfy predetermined criteria defined by the advertiser for delivery of the targeted marketing offer to the consumer.

113. The system of claim 103, wherein the offer triggering event comprises satisfaction of segment criteria associated with a predetermined market segment based on one or more transactions conducted by the particular consumer.

114. The system of claim 103, wherein the offer triggering event is an online session by the particular consumer.

115. The system of claim 114, wherein the offer placement system is operative to select predetermined targeted marketing offer information for the particular consumer, and to display the predetermined targeted marketing offer information to the particular consumer in a predetermined placement in the online banking portal.

116. The system of claim 103, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the targeted marketing offer, and campaign delimiting information.

117. The system of claim 116, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date.

118. The system of claim 103, wherein the campaign data comprises segment data and offer data.

119. The system of claim 118, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information.

120. The system of claim 119, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

121. The system of claim 118, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information.

122. The system of claim 121, wherein the offer defining information comprises one or more of the following data items: an offer amount, an offer start date, an offer end date.

123. The system of claim 121, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information, offer date information.

124. The system of claim 103, wherein the campaign data is generated by an offer management system remotely located from the offer placement system.

125. The system of claim 124, wherein the campaign data is provided electronically from the offer management system.

126. The system of claim 125, wherein the database for the campaign data is stored at the remotely-located offer management system and provided to the offer placement system.

127. The system of claim 103, wherein the system is physically co-located with the financial institution computer system and utilizes network security protections of the financial institution computer system.

128. The system of claim 103, further comprising a component for receiving transaction data from the financial institution computer system corresponding to financial transactions conducted by the particular consumer and storing the transaction data in the database.

129. The system of claim 128, wherein the transaction data is de-identified by the computer system of the financial institution to obtain de-identified transaction data records from which personal information of the particular consumer has been removed.

130. The system of claim 129, wherein the de-identified transaction records include one or more of the following data items: an account global identifier (GUID) associated with the particular consumer, a transaction identifier (ID), location information, merchant information, a transaction amount, a rewards type.

131. The system of claim 128, wherein the component for determining the occurrence of an offer triggering event comprises a component for matching the transaction data in the database with the campaign data to identify the offer triggering event of the particular consumer and for storing information associated with the offer triggering event as matched offer data.

132. The system of claim 131, wherein matched offer data includes one or more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of the particular consumer associated with the offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

133. The system of claim 132, wherein the offer identifier is used to retrieve information for display to the particular consumer corresponding to a specific offer applicable to the offer triggering event from the campaign data.

134. The system of claim 103, wherein the database stores offer impression data corresponding to information indicating that a predetermined targeted marketing offer has been displayed to the particular consumer, for use in determining the number of occurrences of the predetermined marketing offer to consumers.

135. The system of claim 103, wherein the database stores offer redemption data corresponding to information indicating that the particular consumer has engaged in a redemption qualifying transaction that qualifies for a reward associated with the targeted marketing offer displayed to the consumer.

136. The system of claim 135, wherein the redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to the particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward type, a reward amount.

137. The system of claim 103, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the particular consumer engaging in a redemption qualifying transaction having predetermined conditions, and

further comprising a component for delivering the predetermined reward to the particular consumer in response to a determination, by processing of subsequent transaction data records,

that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

138. The system of claim 103, wherein the financial institution computer system comprises the online banking portal and a financial institution transaction processing system.

139. A computer-implemented method for providing a targeted marketing offer to a consumer via an online banking portal associated with a financial institution, the online portal operative in conjunction with a computer system of the financial institution, comprising the steps of:

receiving campaign data associated with a targeted marketing campaign of an advertiser, the campaign data including targeted marketing offer information for delivery to consumers during an online session with the online banking portal;

determining the occurrence of an offer triggering event by a particular consumer during the online session;

identifying a targeted marketing offer for the particular consumer in response to the offer triggering event; and

delivering information corresponding to the targeted marketing offer to the particular consumer via the online banking portal during the online session.

140. The method of claim 139, wherein the offer triggering event is an offer qualifying transaction conducted by the consumer, as reflected in transaction data maintained by the financial institution computer system.

141. The method of claim 140, wherein the campaign data includes information corresponding to an offer qualifying transaction, and further comprising the step of comparing the offer qualifying transaction information in the campaign data to transaction data of the financial institution corresponding to transactions conducted by the particular consumer to identify a particular offer qualifying transaction conducted by the consumer.

142. The method of claim 141, further comprising the step of displaying the targeted marketing offer information to the particular consumer in association with the display of information corresponding to the offer qualifying transaction provided by the online portal.

143. The method of claim 140, wherein the delivery of information corresponding to the targeted marketing offer comprises the display of predetermined offer display information in association with the display of information corresponding to the offer qualifying transaction.

144. The method of claim 143, wherein the predetermined offer display information comprises one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

145. The method of claim 143, wherein the predetermined offer display information is displayed in perceptible visual proximity to information of the offer qualifying transaction.

146. The method of claim 145, wherein the predetermined offer display information is displayed immediately below the offer qualifying transaction on a list of the particular consumer's transactions.

147. The method of claim 145, wherein the predetermined offer display information is displayed in a field in nearby proximity to the offer qualifying transaction on a list of the particular consumer's transactions.

148. The system of claim 139, wherein the offer triggering event is a group of transactions conducted by the particular consumer that collectively satisfy predetermined criteria defined by the advertiser for delivery of the targeted marketing offer to the consumer.

149. The system of claim 139, wherein the offer triggering event comprises satisfaction of segment criteria associated with a predetermined market segment based on one or more transactions conducted by the particular consumer.

150. The method of claim 139, wherein the offer triggering event is an online session by the particular consumer.

151. The method of claim 150, further comprising the step of selecting predetermined targeted marketing offer information for the particular consumer; and
displaying the predetermined targeted marketing offer information to the consumer in a predetermined placement in the online portal.

152. The method of claim 139, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the targeted marketing offer, and campaign delimiting information.

153. The method of claim 152, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date.

154. The method of claim 139, wherein the campaign data comprises segment data and offer data.

155. The method of claim 154, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information.

156. The method of claim 155, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

157. The method of claim 154, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information.

158. The method of claim 157, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date.

159. The method of claim 157, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information, offer date information.

160. The method of claim 139, wherein the campaign data is generated by a remotely located offer management system.

161. The method of claim 160, wherein the campaign data is provided electronically from the offer management system.

162. The method of claim 161, wherein the campaign data is stored at the offer management system.

163. The method of claim 139, further comprising the step of receiving transaction data from the financial institution computer system corresponding to financial transactions conducted by the particular consumer.

164. The method of claim 163, wherein the transaction data is de-identified by the computer system of the financial institution to obtain de-identified transaction data records from which personal information of the particular consumer has been removed.

165. The method of claim 164, wherein the de-identified transaction records include one or more of the following data items: an account global identifier (GUID) associated with the particular consumer, a transaction identifier (ID), location information, merchant information, a transaction amount, a rewards type.

166. The method of claim 163, wherein the step of determining the occurrence of an offer triggering event comprises matching the transaction data received from the financial institution computer system with the campaign data to identify the offer triggering event of the particular consumer and for storing information associated with the offer triggering event as matched offer data.

167. The method of claim 166, wherein the matched offer data includes one or more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of the particular consumer associated with the offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

168. The method of claim 167, wherein the offer identifier is used to retrieve information for display to the particular consumer corresponding to a specific offer applicable to the offer qualifying transaction from the campaign data.

169. The method of claim 139, wherein the method is carried out in an offer placement system that is physically co-located with the financial institution computer system and which utilizes network security protections of the financial institution computer system.

170. The method of claim 139, further comprising the step of storing offer impression data corresponding to information indicating that a predetermined targeted marketing offer has been displayed to the particular consumer during the online session of the online banking portal, for use in determining the number of occurrences of the predetermined marketing offer to consumers.

171. The method of claim 139, further comprising the step of storing offer redemption data corresponding to information indicating that the particular consumer has engaged in a redemption qualifying transaction that qualifies for a reward associated with the targeted marketing offer delivered to the consumer.

172. The method of claim 171, wherein the offer redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to the particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward type, a reward amount.

173. The method of claim 139, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the particular consumer engaging in a redemption qualifying transaction having predetermined conditions, and further comprising the step of delivering the predetermined reward to the particular consumer in response to a determination, by processing of subsequent transaction data records, that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

174. The method of claim 139, wherein the computer system of the financial institution comprises the online banking portal and a financial institution transaction processing system.

175. A targeted marketing offer redemption system operative in conjunction with a computer system of a financial institution to provide a redemption of a targeted marketing offer provided to a consumer via an online banking portal associated with the financial institution, comprising:

a database for storing (a) transaction data records corresponding to a plurality of financial transactions conducted by the consumer, (b) offer data corresponding to the terms of one or more targeted marketing offers delivered to the consumer during a display of consumer transactions via the online banking portal, (c) offer redemption data corresponding to predetermined targeted marketing offers that have been satisfied by the consumer as reflected by a predetermined redemption qualifying transaction, and (d) reward data corresponding to a predetermined reward provided to the consumer in response to satisfaction of the terms of a predetermined targeted marketing offer;

a component for receiving transaction data records from the financial institution and for storing received transaction data records in the database;

a component for processing the transaction data records in the database to identify whether any transactions of a particular consumer comprise a predetermined redemption qualifying transaction that satisfies the terms of a targeted marketing offer delivered to the particular consumer during said display of consumer transactions via the online banking portal, and for storing offer redemption data in the database indicating that a predetermined targeted marketing offer has been satisfied by the particular consumer; and

a component for accessing the offer redemption data and the reward data and providing the predetermined reward to the particular consumer.

176. The system of claim 175, wherein the offer data comprises an offer identifier (ID) and offer defining information.

177. The system of claim 176, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date.

178. The system of claim 175, wherein the offer data is generated by a separate offer management system (OMS) remotely located from the offer redemption system.

179. The system of claim 178, wherein the offer data is provided electronically from the offer management system (OMS).

180. The system of claim 179, wherein the database for the offer data is stored at the offer management system (OMS) and provided to the offer redemption system.

181. The system of claim 175, wherein the transaction data records are de-identified by a transaction system of the financial institution computer system to obtain de-identified transaction data records from which personal information of the consumer has been removed.

182. The system of claim 181, wherein the de-identified transaction data records include one or more of the following data items: an account global identifier (GUID) associated with the particular consumer, a transaction identifier (ID), location information, merchant information, a transaction amount, rewards type information.

183. The system of claim 175, wherein the offer redemption system is physically co-located with the financial institution computer system and utilizes network security protections of the financial institution, and receives de-identified transaction data from a transaction system of the financial institution computer system.

184. The system of claim 175, further comprising a component for matching the transaction data records in the database with campaign data to identify an offer triggering event of a particular consumer and for storing information associated with the offer triggering event as matched offer data, the matched offer data including an identifier of a predetermined targeted marketing offer.

185. The system of claim 175, wherein offer data includes one or more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of the particular consumer associated with an offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

186. The system of claim 185, wherein the offer identifier is used to retrieve information for display to the consumer corresponding to a specific offer applicable to the offer triggering event.

187. The system of claim 185, wherein the offer identifier is used to retrieve information corresponding to the reward data associated with a predetermined targeted marketing offer delivered to the particular consumer.

188. The system of claim 175, further comprising a component for providing display of predetermined redemption display information relating to the predetermined reward in connection with a display of information about the redemption qualifying transaction via the online banking portal.

189. The system of claim 188, wherein the predetermined redemption display information is displayed in perceptible visual proximity to information relating to the redemption qualifying transaction.

190. The system of claim 189, wherein the predetermined redemption display information is displayed immediately below the redemption qualifying transaction on a list of the consumer's transactions.

191. The system of claim 189, wherein the predetermined redemption display information is displayed in nearby proximity to the redemption qualifying transaction on a list of the consumer's transactions.

192. The system of claim 189, wherein the predetermined redemption display information comprises display of an icon in association with the redemption qualifying transaction that is user-actuatable to provide specific reward information.

193. The system of claim 175, wherein the predetermined reward is selected from the group comprising: money paid to the consumer, a discount provided to the consumer, loyalty program points, loyalty program airline miles, a credit against a particular transaction, a credit applied to the consumer's account in general.

194. The system of claim 175, wherein the offer redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to a particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time.

195. A computer-implemented method operative in conjunction with a computer system of a financial institution for providing a redemption of a targeted marketing offer provided to a consumer via an online banking portal associated with the financial institution, comprising the steps of:

storing offer data corresponding to the terms of one or more predetermined targeted marketing offers delivered to a consumer during a display of consumer transactions via the online banking portal;

storing reward data corresponding to a predetermined reward provided to a consumer in response to satisfaction of the terms of a predetermined targeted marketing offer;

storing offer redemption data corresponding to a predetermined targeted marketing offer that has been satisfied by a consumer as reflected by a predetermined redemption qualifying transaction;

receiving transaction data from the financial institution;

processing the transaction data to identify whether any transactions of a particular consumer comprise a predetermined redemption qualifying transaction that satisfies the terms of a targeted marketing offer delivered to the particular consumer during a prior display of consumer transactions via the online banking portal;

storing an indication that the predetermined redemption qualifying transaction has occurred as the offer redemption data;

accessing the offer redemption data and the reward data to determine the predetermined reward applicable to the predetermined redemption qualifying transaction; and

providing the predetermined reward to the particular consumer.

196. The method of claim 195, wherein the offer data comprises an offer identifier (ID) and offer defining information.

197. The method of claim 196, wherein the offer defining information comprises one of more of the following data items: an offer amount, an offer start date, an offer end date.

198. The method of claim 195, wherein the offer data is generated by an offer management system (OMS).

199. The method of claim 198, wherein the offer data is provided electronically from the offer management system (OMS).

200. The method of claim 195, wherein the transaction data is de-identified by a transaction system of the financial institution computer system to obtain de-identified transaction data records from which personal information of the consumer has been removed, prior to determining the predetermined reward.

201. The method of claim 200, wherein the de-identified transaction data records include one or more of the following data items: an account global identifier (GUID) associated with the particular consumer, a transaction identifier (ID), location information, merchant information, a transaction amount, rewards type information.

202. The method of claim 195, further comprising the steps of:

matching the transaction data with campaign data to identify an offer triggering event of a particular consumer, the campaign data including information corresponding to the predetermined targeted marketing offers and the reward data; and

storing information associated with the offer triggering event as matched offer data, the matched offer data including an identifier of a predetermined targeted marketing offer that contains the terms for the reward.

203. The method of claim 195, wherein the offer data includes one or more of the following data items: one or more transaction identifiers (ID) associated with one or more transactions of a particular consumer associated with an offer triggering event, an offer identifier (ID), an account global identifier (GUID) associated with the particular consumer.

204. The method of claim 203, wherein the offer identifier is used to retrieve information for display to the particular consumer corresponding to the terms applicable to the redemption qualifying transaction.

205. The method of claim 203, wherein the offer identifier is used to retrieve information corresponding to the reward data associated with the predetermined targeted marketing offer delivered to the particular consumer.

206. The method of claim 195, further comprising the step of providing display of predetermined redemption display information relating to the predetermined reward in connection with a display of information about the redemption qualifying transaction via the online banking portal.

207. The method of claim 206, wherein the predetermined redemption display information is displayed in perceptible visual proximity to information relating to the redemption qualifying transaction.

208. The method of claim 207, wherein the predetermined redemption display information is displayed immediately below the redemption qualifying transaction on a list of the particular consumer's transactions.

209. The method of claim 207, wherein the predetermined redemption display information is displayed in nearby proximity to the redemption qualifying transaction on a list of the particular consumer's transactions.

210. The method of claim 207, wherein the predetermined redemption display information comprises display of an icon in association with the redemption qualifying transaction that is user-actuatable to provide specific reward information.

211. The method of claim 195, wherein the predetermined reward is selected from the group comprising: money paid to the consumer, a discount provided to the consumer, loyalty

program points, loyalty program airline miles, a credit against a particular transaction, a credit applied to the consumer's account in general.

212. The method of claim 195, wherein the offer redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to the particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time.

213. A targeted marketing offer management system operative for providing electronic targeted marketing offers for delivery to a financial institution consumer via an online portal associated with a financial institution, the online portal operative to provide a display of transactions of consumers during an online viewing session, comprising:

a database for storing targeted marketing campaign data, the targeted marketing campaign data comprising advertiser campaign data associated with a particular advertiser, segment data corresponding to at least one market segment defining properties of transactions that qualify for receiving a targeted marketing offer of the advertiser, and offer data corresponding to at least one targeted marketing offer;

a component for receiving aggregated consumer transaction data from a computer system of the financial institution;

a component for providing a marketing campaign interface for the advertiser, the marketing campaign interface allowing the advertiser to define campaign data corresponding to a predetermined marketing campaign by (a) display of information derived from the aggregated consumer transaction data indicating potential market segments definable by the advertiser, (b) advertiser entry of information for defining a predetermined market segment, and (c) advertiser entry of information for defining a predetermined targeted marketing offer for delivery to the predetermined market segment; and

a component for outputting the campaign data to the financial institution for delivery of the predetermined targeted marketing offer to consumers of the financial institution within the predetermined market segment,

whereby consumers in the predetermined market segment are provided with a display of the predetermined targeted marketing offer during an online session comprising a display of transactions of consumers via the online portal of the financial institution.

214. The system of claim 213, wherein the marketing campaign interface is hosted on a web-accessible server, and comprises a web-based user interface accessible by a plurality of advertisers that define and manage a plurality of marketing campaigns.

215. The system of claim 213, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an

advertiser providing the predetermined targeted marketing offer, and campaign delimiting information.

216. The system of claim 215, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, a campaign name, a predetermined market segment, location information, merchant information, a spend amount.

217. The system of claim 213, wherein the system stores campaign data comprising segment data corresponding to a plurality of predetermined market segments and offer data comprising a plurality of predetermined targeted marketing offers.

218. The system of claim 217, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information for each predetermined market segment.

219. The system of claim 218, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

220. The system of claim 217, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information associated with each predetermined targeted marketing offer.

221. The system of claim 220, wherein the offer defining information comprises one or more of the following data items: an offer amount, an offer start date, an offer end date, an offer type.

222. The system of claim 220, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information.

223. The system of claim 213, wherein the offer management system is remotely located from a system of the financial institution that provides the online portal.

224. The system of claim 213, further comprising an offer placement system operating in cooperation with a financial institution computer system associated with the financial institution, and wherein the campaign data is processed by the offer placement system to generate a display of the predetermined targeted marketing offer for use with a display provided by the online portal of the financial institution.

225. The system of claim 224, wherein the offer placement system receives transaction data from the financial institution computer system corresponding to financial transactions of consumers of the financial institution.

226. The system of claim 225, wherein the transaction data is de-identified by a transaction system of the financial institution computer system to obtain de-identified transaction data records from which personal information of the consumers has been removed.

227. The system of claim 226, wherein the de-identified transaction data records include one or more of the following data items: an account global identifier (GUID) associated with each consumer, a transaction identifier (ID) associated with each transaction of a consumer, location information, merchant information, a transaction amount, a rewards type.

228. The system of claim 224, wherein the offer management system is remotely located from the offer placement system.

229. The system of claim 224, wherein the campaign data is provided electronically from the offer management system to the offer placement system.

230. The system of claim 224, wherein the database for the campaign data is stored at the offer management system and provided to the offer placement system.

231. The system of claim 213, wherein the aggregated consumer transaction data comprises the total number of consumers associated with each potential market segment.

232. The system of claim 213, wherein the database stores offer redemption data corresponding to information indicating that the particular consumer has engaged in an offer redemption transaction that qualifies for a reward associated with the targeted marketing offer displayed to the consumer.

233. The system of claim 232, wherein the redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to a particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward amount, a reward type.

234. The system of claim 213, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the consumer engaging in a redemption qualifying transaction having predetermined conditions, and

further comprising a component for delivering the predetermined reward to the consumer in response to a determination, by processing of subsequent transaction data, that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

235. The system of claim 234, wherein the system provides for a plurality of related predetermined market segments associated with a marketing campaign, each segment having a separate predetermined reward, whereby different rewards are available for different predetermined market segments.

236. A computer-implemented method for providing electronic targeted marketing offers for delivery to a consumer of a financial institution via an online portal associated with a computer system of the financial institution, the online portal operative to provide a display of transactions of consumers during an online viewing session, comprising the steps of:

providing a marketing campaign interface for an advertiser, the marketing campaign interface allowing the advertiser to define campaign data corresponding to a predetermined marketing campaign of the advertiser by (a) display of information indicating potential market segments definable by the advertiser, (b) advertiser entry of information for defining a predetermined market segment, and (c) advertiser entry of information for defining a predetermined targeted marketing offer for delivery to the predetermined market segment;

receiving campaign data corresponding to a targeted marketing campaign of at least one advertiser via the campaign interface, the campaign data comprising advertiser campaign data associated with a particular advertiser, segment data corresponding to at least one market segment defining properties of transactions that qualify for receiving a targeted marketing offer of the advertiser, and offer data corresponding to at least one targeted marketing offer; and

outputting the campaign data to a system for delivery of the predetermined targeted marketing offer to consumers of the financial institution within the predetermined market segment,

whereby consumers in the predetermined market segment are provided with a display of information relating to the predetermined targeted marketing offer during an online session comprising a display of transactions of consumers via the online portal of the financial institution.

237. The method of claim 236, wherein the marketing campaign interface is hosted on a web-accessible server, and comprises a web-based user interface accessible by a plurality of advertisers that define and manage a plurality of marketing campaigns.

238. The method of claim 236, wherein the campaign data comprises information corresponding to a campaign identifier (ID), an advertiser identifier (ID) associated with an advertiser providing the predetermined targeted marketing offer, and campaign delimiting information.

239. The method of claim 238, wherein the campaign delimiting information comprises one or more of the following data items: a campaign start date, a campaign end date, a campaign name, a predetermined market segment, location information, merchant information, a spend amount.

240. The method of claim 236, wherein the segment data corresponds to a plurality of predetermined market segments and offer data comprising a plurality of predetermined targeted marketing offers for such segments.

241. The method of claim 240, wherein the segment data comprises information corresponding to a segment identifier (ID) and segment delimiting information for each predetermined market segment.

242. The method of claim 241, wherein the segment delimiting information comprises one or more of the following data items: location information for the market segment, merchant identifying information, a spend amount.

243. The method of claim 240, wherein the offer data comprises an offer identifier (ID), offer defining information, and offer display information associated with each predetermined targeted marketing offer.

244. The method of claim 243, wherein the offer defining information comprises one or more of the following data items: an offer amount, an offer start date, an offer end date, an offer type.

245. The method of claim 243, wherein the offer display information comprises one or more of the following data items: offer text information, offer image information, offer amount information, offer type information.

246. The method of claim 236, wherein the steps are carried out in an offer management system remotely located from a system of the financial institution that provides the online portal.

247. The method of claim 246, wherein the campaign data is stored at the offer management system and provided to an offer placement system that provides display information to the online portal.

248. The method of claim 236, wherein the campaign data is provided to an offer placement system for generating a display of the predetermined targeted marketing offer for use with a display provided by the online portal of the financial institution.

249. The method of claim 236, wherein the campaign data is provided to a system associated with the online portal of the financial institution.

250. The method of claim 236, wherein the campaign data is provided to an offer placement system for subsequent provision of display information for use by the online portal of the financial institution.

251. The method of claim 250, further comprising the step of receiving transaction data at the offer placement system from the financial institution corresponding to financial transactions of consumers of the financial institution.

252. The method of claim 251, wherein the transaction data is de-identified by a transaction system of the financial institution to obtain de-identified transaction data records from which personal information of each consumer has been removed.

253. The method of claim 252, wherein the de-identified transaction records include one or more of the following data items: an account global identifier (GUID) associated with each consumer, a transaction identifier (ID) associated with each transaction of a consumer, location information, vendor / competitor information, a transaction amount, a rewards type.

254. The method of claim 250, wherein the offer placement system operates in cooperation with a financial institution computer system associated with the financial institution to generate a display of information relating to the predetermined targeted marketing offer during an online session comprising a display of transactions of consumers via the online portal of the financial institution.

255. The method of claim 250, wherein the campaign data is provided electronically to the offer placement system.

256. The method of claim 250, wherein the campaign data is stored at an offer management system and provided to the offer placement system.

257. The method of claim 236, further comprising the step of receiving redemption data corresponding to information indicating that a particular consumer has engaged in a redemption qualifying transaction that qualifies for a reward associated with the targeted marketing offer displayed to the consumer.

258. The method of claim 257, wherein the redemption data includes one or more of the following data items: an offer identifier (ID) associated with a particular targeted marketing offer displayed to the particular consumer, an account global identifier (GUID) associated with the particular consumer, a date, a time, a reward amount, a reward type.

259. The method of claim 236, wherein the targeted marketing offer includes information indicating promised delivery of a predetermined reward in response to the consumer engaging in a redemption qualifying transaction having predetermined conditions, and

further comprising the step of delivering the predetermined reward to the consumer in response to a determination, by processing of subsequent transaction data, that a transaction conducted by the consumer satisfies the predetermined conditions of the redemption qualifying transaction.

260. The method of claim 259, further comprising the step of providing for a plurality of related predetermined market segments associated with a marketing campaign, each of said market segments having an associated predetermined reward, whereby different rewards are available for different predetermined market segments.

261. A system for displaying a selected advertisement on a web page display associated with a list of transactions delivered by a financial institution computer system to a consumer via an Internet-accessible online banking portal to a client machine operated by the consumer and displayed in a web browser of the client machine, the selected advertisement provided from an offer placement system independently of the financial institution computer system, comprising:

an offer placement system including a database storing a plurality of potential advertisements and operative to identify a selected advertisement corresponding to a predetermined advertisement selection criterion based on information in a list of currently-displayed transactions received from the client machine, the offer placement system being further operative in response to the identification of a selected advertisement to generate an advertisement return package to the client machine that includes the selected advertisement and advertisement placement information and to transmit the advertisement return package to the client machine; and

software installed on the client machine operative for:

receiving an account history page from the financial institution computer system comprising a list of transactions in response to a request from the web browser resulting from an event triggered by the consumer;

processing the list of transactions to generate a list of currently-displayed transactions;

transmitting the list of currently-displayed transactions to the offer placement system;

receiving the selected advertisement from the offer placement system; and

displaying the selected advertisement in the web browser with the currently-displayed transactions in accordance with predetermined advertisement placement information.

262. The system of claim 261, wherein the advertisement selection criterion comprises the occurrence of an offer qualifying transaction in the list of currently-displayed transactions.

263. The system of claim 261, wherein the advertisement selection criterion comprises a customer identifier provided to the offer placement system.

264. The system of claim 261, wherein the list of transactions is processed at the client machine to generate the list of currently-displayed transactions.

265. The system of claim 261, wherein the list of transactions is processed at the financial institution computer system to generate the list of currently-displayed transactions.

266. The system of claim 261, wherein the list of currently-displayed transaction is transmitted to the offer placement system together with a customer identifier, and wherein the offer placement system utilizes the customer identifier as additional information in identifying the selected advertisement.

267. The system of claim 261, wherein operations are carried out during a secure online session with the financial institution computer system.

268. The system of claim 261, wherein the client machine transmits a customer identifier to the offer placement system, the customer identifier including a network return pathname (URL) for returning information from the offer placement system to the client machine.

269. The system of claim 261, wherein the offer placement system, in response to receipt of the list of currently-displayed transactions from the client machine, identifies a selected advertisement that corresponds to an offer qualifying transaction in the list of currently-displayed transactions.

270. The system of claim 261, wherein the account history page provided by the financial institution computer system includes an injection script executable within the web browser environment that is operative to process the list of transactions to generate the list of currently-displayed transactions and display the selected advertisement in the web browser in accordance with the predetermined advertisement placement information.

271. The system of claim 270, wherein the account history page provided by the financial institution computer system includes a script call code embedded in the code of the account history page, the script call code including a script request via a network pathname to an injection script server storing the injection script.

272. The system of claim 271, wherein the injection script server is associated with the financial institution computer system.

273. The system of claim 271, wherein the injection script server is associated with the offer placement system.

274. The system of claim 270, wherein operation of displaying one more of transactions of the list of transactions in the web browser is asynchronous to requesting and executing the injection script.

275. The system of claim 270, wherein the injection script is a DOM injection script.

276. The system of claim 270, wherein the injection script is Javascript, and the web browser is Javascript-enabled.

277. The system of claim 270, wherein the injection script server is co-located with the offer placement system.

278. The system of claim 270, wherein the injection script server is associated with the financial institution computer system.

279. The system of claim 270, wherein the network pathname to the injection script server of the script call code is directed to the financial institution computer system, and wherein the financial institution computer system redirects script request to the offer placement system that serves as the script server.

280. The system of claim 279, wherein the financial institution computer system returns the injection script to the client machine.

281. The system of claim 261, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser adjacent to a particular transaction in the list of currently-displayed transactions.

282. The system of claim 261, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser in a predetermined region of the account history page.

283. The system of claim 261, wherein the account history page comprises an HTML web page.

284. The system of claim 261, wherein the selected advertisement comprises a targeted marketing offer.

285. The system of claim 284, wherein the targeted marketing offer comprises an advertisement that corresponds to a particular one of the transactions in the list of currently-displayed transactions.

286. The system of claim 261, wherein the offer placement system identifies the selected advertisement based on the list of currently-displayed transactions and an account identifier associated with the consumer.

287. The system of claim 261, wherein the offer placement system stores advertising campaign data including information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to the list of currently-displayed transactions to identify a particular offer qualifying transaction conducted by the customer for use in identifying the selected advertisement.

288. The system of claim 261, wherein the selected advertisement is displayed in association with the display of information corresponding to the offer qualifying transaction.

289. The system of claim 261, wherein display of the selected advertisement comprises display of one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

290. The system of claim 261, wherein the selected advertisement is displayed in perceptible visual proximity to the list of currently-displayed transactions.

291. The system of claim 290, wherein the selected advertisement is displayed immediately below a transaction on the list of currently-displayed transactions.

292. The system of claim 290, wherein the selected advertisement is displayed in a predetermined region in nearby proximity to the list of currently-displayed transactions.

293. A computer-implemented method for displaying a selected advertisement on a web page display associated with a list of transactions delivered by a financial institution computer system to a consumer via an Internet-accessible online banking portal to a client machine operated by the consumer and displayed in a web browser of the client machine, the selected advertisement provided from an offer placement system independently of the financial institution computer system, comprising the steps of:

at the client machine, receiving an account history page from the financial institution computer system comprising a list of transactions in response to a request from the web browser resulting from an event triggered by the consumer;

processing the list of transactions to generate a list of currently-displayed transactions;

transmitting the list of currently-displayed transactions to an offer placement system;

at the offer placement system and in response to receipt of the list of currently-displayed transactions, accessing a database storing a plurality of potential advertisements to identify a selected advertisement corresponding to an advertisement selection criterion;

transmitting the selected advertisement from the offer placement system to the client machine;

at the client machine, receiving the selected advertisement from the offer placement system; and

displaying the selected advertisement in the web browser with the currently-displayed transactions in accordance with predetermined advertisement placement information.

294. The method of claim 293, wherein the advertisement selection criterion comprises the occurrence of an offer qualifying transaction in the list of currently-displayed transactions.

295. The method of claim 293, wherein the advertisement selection criterion comprises a customer identifier provided to the offer placement system.

296. The method of claim 293, wherein the list of transactions is processed at the client machine to generate the list of currently-displayed transactions.

297. The method of claim 293, wherein the list of transactions is processed at the financial institution computer system to generate the list of currently-displayed transactions.

298. The method of claim 293, wherein the list of currently-displayed transaction is transmitted to the offer placement system together with a customer identifier, and wherein the offer placement system utilizes the customer identifier as additional information in identifying the selected advertisement.

299. The method of claim 293, wherein the steps are carried out during a secure online session with the financial institution computer system.

300. The method of claim 293, further comprising the step of transmitting a customer identifier to the offer placement system, the customer identifier including a network return pathname (URL) for returning information from the offer placement system to the client machine.

301. The method of claim 293, further comprising the step of, at the offer placement system and in response to receipt of the list of currently-displayed transactions, accessing a database storing a plurality of potential advertisements to identify a selected advertisement that corresponds to an offer qualifying transaction in the list of currently-displayed transactions.

302. The method of claim 293, wherein the account history page provided by the financial institution computer system includes an injection script executable within the web browser environment that is operative to carry out steps of processing the list of transactions to generate the list of currently-displayed transactions and displaying the selected advertisement in the web browser in accordance with predetermined advertisement placement information.

303. The method of claim 302, wherein the account history page provided by the financial institution computer system includes a script call code embedded in the code of the account history page, the script call code including a script request via a network pathname to an injection script server storing the injection script.

304. The method of claim 303, wherein the injection script server is associated with the financial institution computer system.

305. The method of claim 303, wherein the injection script server is associated with the offer placement system.

306. The method of claim 302, wherein the step of displaying one more of transactions of the list of transactions in the web browser is asynchronous to the steps relating to the requesting and executing of the injection script.

307. The method of claim 302, wherein the injection script is a DOM injection script.

308. The method of claim 302, wherein the injection script is Javascript, and the web browser is Javascript-enabled.

309. The method of claim 302, wherein the injection script server is co-located with the offer placement system.

310. The method of claim 302, wherein the injection script server is associated with the financial institution computer system.

311. The method of claim 302, wherein the network pathname to the injection script server of the script call code is directed to the financial institution computer system, and wherein the financial institution computer system redirects script request to the offer placement system that serves as the script server.

312. The method of claim 311, wherein the financial institution computer system returns the injection script to the client machine.

313. The method of claim 293, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser adjacent to a particular transaction in the list of currently-displayed transactions.

314. The method of claim 293, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser in a predetermined region of the account history page.

315. The method of claim 293, wherein the account history page comprises an HTML web page.

316. The method of claim 293, wherein the selected advertisement comprises a targeted marketing offer.

317. The method of claim 316, wherein the targeted marketing offer comprises an advertisement that corresponds to a particular one of the transactions in the list of currently-displayed transactions.

318. The method of claim 293, wherein the offer placement system identifies the selected advertisement based on the list of currently-displayed transactions and an account identifier associated with the customer.

319. The method of claim 293, wherein the offer placement system stores advertising campaign data including information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to the list of currently-displayed transactions to identify a particular offer qualifying transaction conducted by the customer for use in identifying the selected advertisement.

320. The method of claim 293, wherein the selected advertisement is displayed in association with the display of information corresponding to the offer qualifying transaction.

321. The method of claim 293, wherein display of the selected advertisement comprises display of one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

322. The method of claim 293, wherein the selected advertisement is displayed in perceptible visual proximity to the list of currently-displayed transactions.

323. The method of claim 322, wherein the selected advertisement is displayed immediately below a transaction on the list of currently-displayed transactions.

324. The method of claim 322, wherein the selected advertisement is displayed in a predetermined region in nearby proximity to the list of currently-displayed transactions.

325. A computer-implemented method for displaying a selected advertisement on a web page display associated with a list of transactions delivered by a financial institution computer system to a consumer via an Internet-accessible online banking portal to a client machine operated by the consumer and displayed in a web browser of the client machine, the selected advertisement provided from an offer placement system independently of the financial institution computer system, comprising the steps of:

at the client machine, initiating a secure online session with the financial institution computer system via the web browser of the client machine and requesting display of an account history page that includes a plurality of transactions of the consumer;

at the financial institution computer system, responding to the account history page request by providing an account history page comprising a list of transactions derived from the plurality of transactions, the account history page including a script call code embedded in the code of the account history page, the script call code including a script request via a network pathname to an injection script server storing an injection script;

at the client machine and in response to receipt of the account history page, displaying one or more transactions of the list of transactions in the web browser;

at the client machine, responding to the script call code by loading a script execution component of the web browser and executing the script call code to issue a request to the injection script server to request the injection script;

at the injection script server, responding to the request from the client machine by retrieving the injection script and transmitting the injection script to the client machine;

at the client machine, in response to receipt of the injection script, executing the injection script to process the list of transactions to generate a list of currently-displayed transactions;

transmitting the list of currently-displayed transactions and a customer identifier to the offer placement system, the customer identifier including a network return pathname (URL) for returning information from the offer placement system to the client machine;

at the offer placement system and in response to receipt of the list of currently-displayed transactions, accessing a database storing a plurality of potential advertisements to identify a selected advertisement that corresponds to an advertisement selection criterion;

in response to the identification of a selected advertisement at the offer placement system, generating an advertisement return package to the client machine that includes the selected advertisement and advertisement placement information;

transmitting the advertisement return package from the offer placement system to the client machine via the network return pathname;

at the client machine, receiving the advertisement return package from the offer placement system and continuing execution of the injection script by parsing out the advertisement placement information and the selected advertisement; and

at the client machine, continuing the execution of the injection script by displaying the selected advertisement in the web browser in accordance with the advertisement placement information.

326. The method of claim 325, wherein the advertisement selection criterion comprises the occurrence of an offer qualifying transaction in the list of currently-displayed transactions.

327. The method of claim 325, wherein the advertisement selection criterion comprises the customer identifier.

328. The method of claim 325, wherein the injection script server is associated with the financial institution computer system.

329. The method of claim 325, wherein the injection script server is associated with the offer placement system.

330. The method of claim 325, wherein the step of displaying one more of transactions of the list of transactions in the web browser is asynchronous to the steps relating to the requesting and executing of the injection script.

331. The method of claim 325, wherein the injection script is a DOM injection script.

332. The method of claim 325, wherein the injection script is Javascript, and the web browser is Javascript-enabled.

333. The method of claim 325, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser adjacent to a particular transaction in the list of currently-displayed transactions.

334. The method of claim 325, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser in a predetermined region of the account history page.

335. The method of claim 325, wherein the injection script server is co-located with the offer placement system.

336. The method of claim 325, wherein the injection script server is associated with the financial institution computer system.

337. The method of claim 325, wherein the account history page comprises an HTML web page.

338. The method of claim 325, wherein the selected advertisement comprises a targeted marketing offer.

339. The method of claim 338, wherein the targeted marketing offer comprises an advertisement that corresponds to a particular one of the transactions in the list of currently-displayed transactions.

340. The method of claim 325, wherein the network pathname to the injection script server of the script call code is directed to the financial institution computer system, and wherein the financial institution computer system redirects the script request to the offer placement system that serves as the script server.

341. The method of claim 340, wherein the financial institution computer system returns the injection script to the client machine.

342. The method of claim 325, wherein the offer placement system identifies the selected advertisement based on the list of currently-displayed transactions and an account identifier associated with the consumer.

343. The method of claim 325, wherein the offer placement system stores advertising campaign data including information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to the list of currently-displayed transactions to identify a particular offer qualifying transaction conducted by the consumer for use in identifying the selected advertisement.

344. The method of claim 343, wherein the selected advertisement is displayed in association with the display of information corresponding to the offer qualifying transaction.

345. The method of claim 325, wherein display of the selected advertisement comprises display of one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

346. The method of claim 325, wherein the selected advertisement is displayed in perceptible visual proximity to the list of currently-displayed transactions.

347. The method of claim 346, wherein the selected advertisement is displayed immediately below a transaction in the list of currently-displayed transactions.

348. The method of claim 346, wherein the selected advertisement is displayed in a predetermined region in nearby proximity to the list of currently-displayed transactions.

349. A system for displaying a selected advertisement on a web page display associated with a list of transactions delivered by a financial institution computer system to a consumer via an Internet-accessible online banking portal to a client machine operated by the consumer and displayed in a web browser of the client machine, the selected advertisement provided independently of the financial institution computer system, comprising:

an offer placement system including a database storing a plurality of potential advertisements and operative to identify a selected advertisement corresponding to a predetermined advertisement selection criterion, the offer placement system being further operative in response to the identification of a selected advertisement to generate an advertisement return package to the client machine that includes the selected advertisement and advertisement placement information, and to transmit the advertisement return package to the client machine via a network return pathname; and

software installed on the client machine operative for:

initiating a secure online session with the financial institution computer system via the web browser of the client machine and requesting display of an account history page that includes a plurality of transactions of the customer;

receiving an account history page from the financial institution computer system comprising a list of transactions derived from the plurality of transactions, the account history page including a script call code embedded in the code of the account history page, the script call code including a script request via a network pathname to an injection script server storing an injection script;

in response to receipt of the account history page, displaying one more of transactions of the list of transactions in the web browser;

responding to the script call code by loading a script execution component of the web browser and executing the script call code to issue a request to the injection script server to request the injection script;

receiving the injection script from the injection script server;

in response to receipt of the injection script, executing the injection script to process the list of transactions to generate a list of currently-displayed transactions for transmission to the offer placement system;

transmitting the list of currently-displayed transactions and a customer identifier to the offer placement system, the customer identifier including the network return pathname for returning information from the offer placement system to the client machine;

receiving the advertisement return package from the offer placement system and continuing execution of the injection script by parsing out the advertisement placement information and the selected advertisement; and

continuing the execution of the injection script by displaying the selected advertisement in the web browser in accordance with the advertisement placement information.

350. The system of claim 349, wherein the advertisement selection criterion comprises the occurrence of an offer qualifying transaction in the list of currently-displayed transactions.

351. The system of claim 349, wherein the advertisement selection criterion comprises the customer identifier.

352. The system of claim 349, wherein the injection script server is associated with the financial institution computer system.

353. The system of claim 349, wherein the injection script server is associated with the offer placement system.

354. The system of claim 349, wherein the displaying one more of transactions of the list of transactions in the web browser is asynchronous to requesting and executing of the injection script.

355. The system of claim 349, wherein the injection script is a DOM injection script.

356. The system of claim 349, wherein the injection script is Javascript, and the web browser is Javascript-enabled.

357. The system of claim 349, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser adjacent to a particular transaction in the list of currently-displayed transactions.

358. The system of claim 349, wherein the advertisement placement information comprises instructions to display the selected advertisement in the web browser in a predetermined region of the account history page.

359. The system of claim 349, wherein the injection script server is co-located with the offer placement system.

360. The system of claim 349, wherein the injection script server is associated with the financial institution computer system.

361. The system of claim 349, wherein the account history page comprises an HTML web page.

362. The system of claim 349, wherein the selected advertisement comprises a targeted marketing offer.

363. The system of claim 362, wherein the targeted marketing offer comprises an advertisement that corresponds to a particular one of the transactions in the list of currently-displayed transactions.

364. The system of claim 349, wherein the network pathname to the injection script server of the script call code is directed to the financial institution computer system, and wherein the financial institution computer system redirects the script request to the offer placement system that serves as the script server.

365. The system of claim 364, wherein the financial institution computer system returns the injection script to the client machine.

366. The system of claim 349, wherein the offer placement system identifies the selected advertisement based on the list of currently-displayed transactions and an account identifier associated with the customer.

367. The system of claim 349, wherein the offer placement system stores advertising campaign data including information corresponding to an offer qualifying transaction, and wherein the offer placement system is operative to compare the offer qualifying transaction information in the campaign data to the list of currently-displayed transactions to identify a particular offer qualifying transaction conducted by the consumer for use in identifying the selected advertisement.

368. The system of claim 367, wherein the selected advertisement is displayed in association with the display of information corresponding to the offer qualifying transaction.

369. The system of claim 349, wherein display of the selected advertisement comprises display of one or more of the following data items: offer text information, offer image information, reward amount, reward type, date(s) of offer.

370. The system of claim 349, wherein the selected advertisement is displayed in perceptible visual proximity to a transaction in the list of currently-displayed transactions.

371. The system of claim 370, wherein the selected advertisement is displayed immediately below a transaction in the list of currently-displayed transactions.

372. The system of claim 370, wherein the selected advertisement is displayed in a field in nearby proximity to a transaction in the list of currently-displayed transactions.

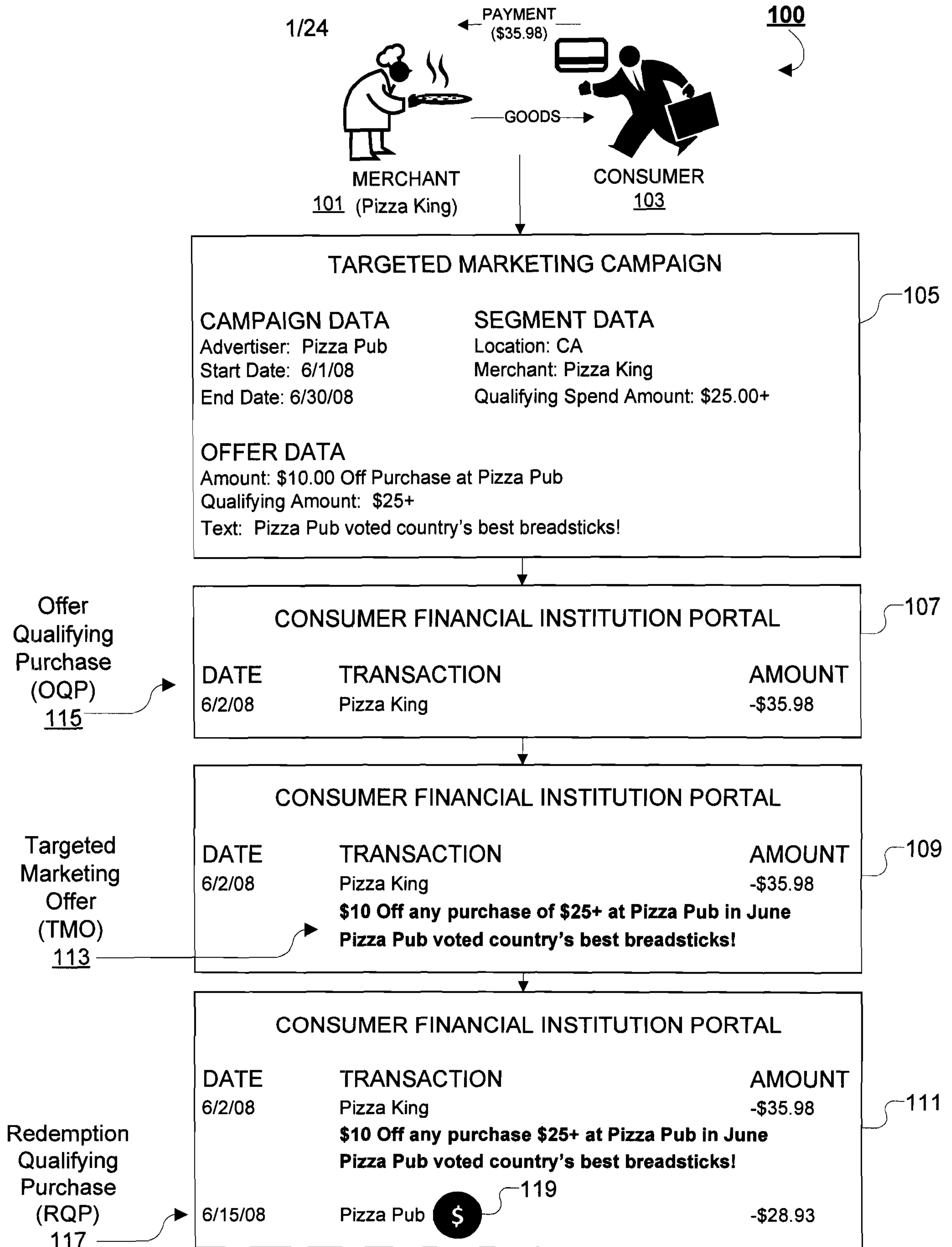
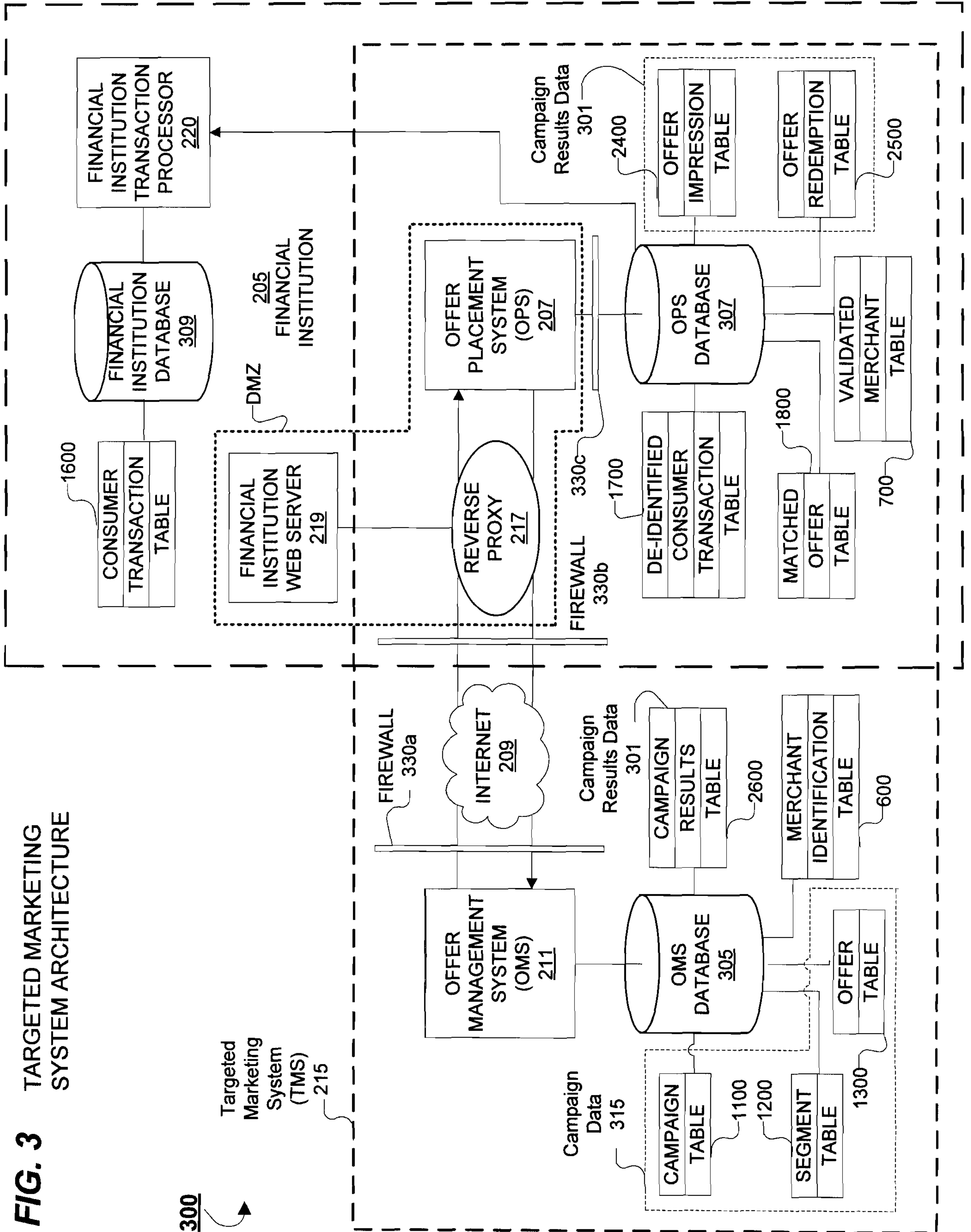


FIG. 1 EXEMPLARY TRANSACTION-OFFER-REDEMPTION LIFECYCLE

FIG. 3 TARGETED MARKETING SYSTEM ARCHITECTURE



300

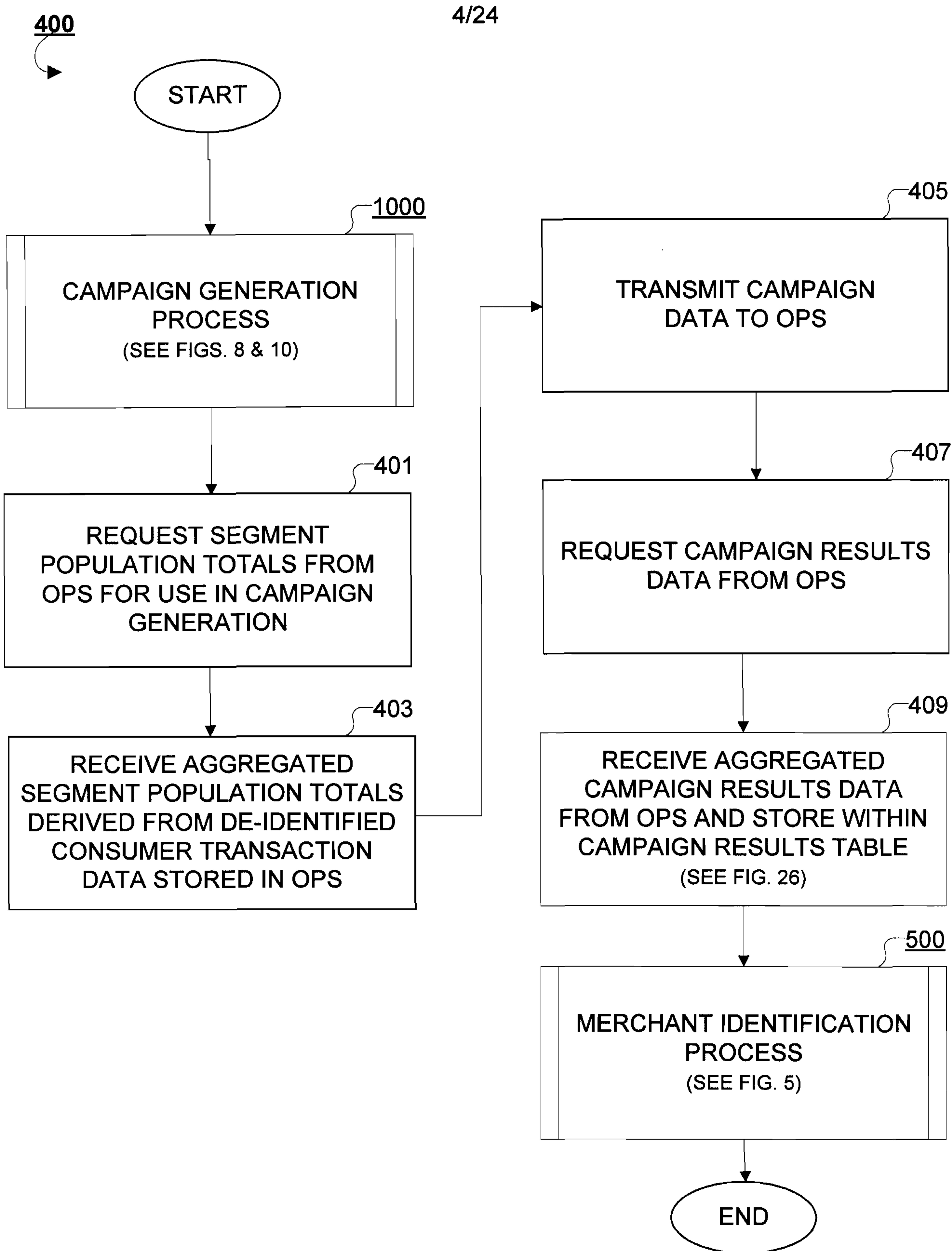


FIG. 4 OVERALL OMS PROCESSES

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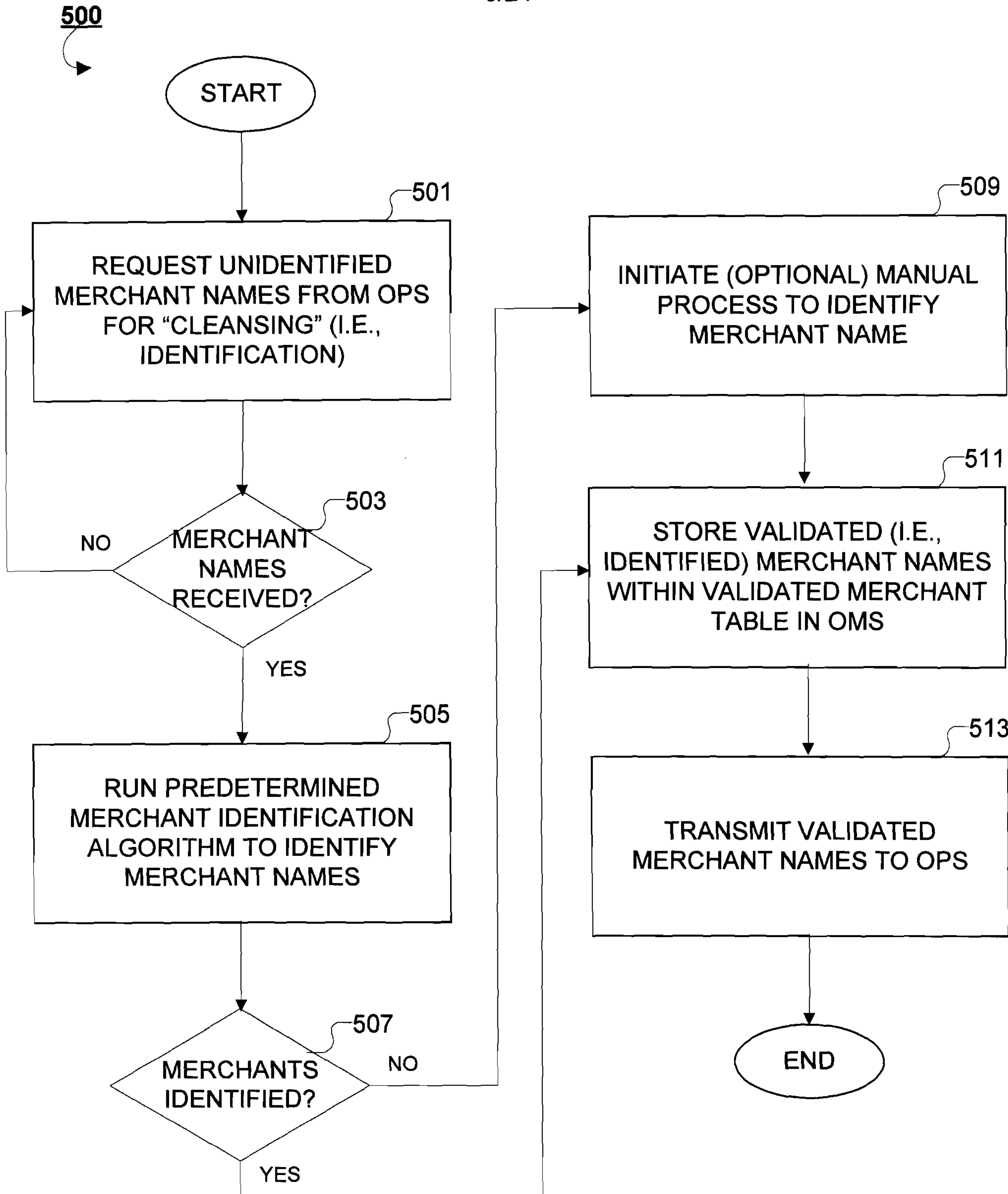


FIG. 5 MERCHANT IDENTIFICATION PROCESS

600

| 601 | 603 | 605 | 607 | 609 | 611 |
|---------------------------|----------------------------|------------------------|-------------------------|-------------------|---------------------------|
| UNIDENTIFIED MERCHANT KEY | UNIDENTIFIED MERCHANT NAME | VALIDATED MERCHANT KEY | VALIDATED MERCHANT NAME | MERCHANT CATEGORY | IDENTITY ASSURANCE RATING |
| 349 | PIZZA KING #32 | 54 | PIZZA KING | FOOD & BEVERAGE | 100% |
| 103 | SKATE ESCP | 23 | SKATE ESCAPE | ENTERTAINMENT | 90% |
| 184 | S ESCAPE HOUSTON | 23 | SKATE ESCAPE | ENTERTAINMENT | 70% |
| 785 | TIRE TOWN INC | 78 | TIRE TOWN | RETAIL & SHOPPING | 100% |
| 293 | BOOK BARN 2049 | 49 | THE BOOK BARN | RETAIL & SHOPPING | 100% |

613

FIG. 6 MERCHANT IDENTIFICATION TABLE

700

| 601 | 603 | 605 | 607 | 609 | 611 |
|---------------------------|----------------------------|------------------------|-------------------------|-------------------|---------------------------|
| UNIDENTIFIED MERCHANT KEY | UNIDENTIFIED MERCHANT NAME | VALIDATED MERCHANT KEY | VALIDATED MERCHANT NAME | MERCHANT CATEGORY | IDENTITY ASSURANCE RATING |
| 349 | PIZZA KING #32 | 54 | PIZZA KING | FOOD & BEVERAGE | 100% |
| 785 | TIRE TOWN INC | 78 | TIRE TOWN | RETAIL & SHOPPING | 100% |
| 293 | BOOK BARN 2049 | 49 | THE BOOK BARN | RETAIL & SHOPPING | 100% |

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FIG. 7 VALIDATED MERCHANT TABLE

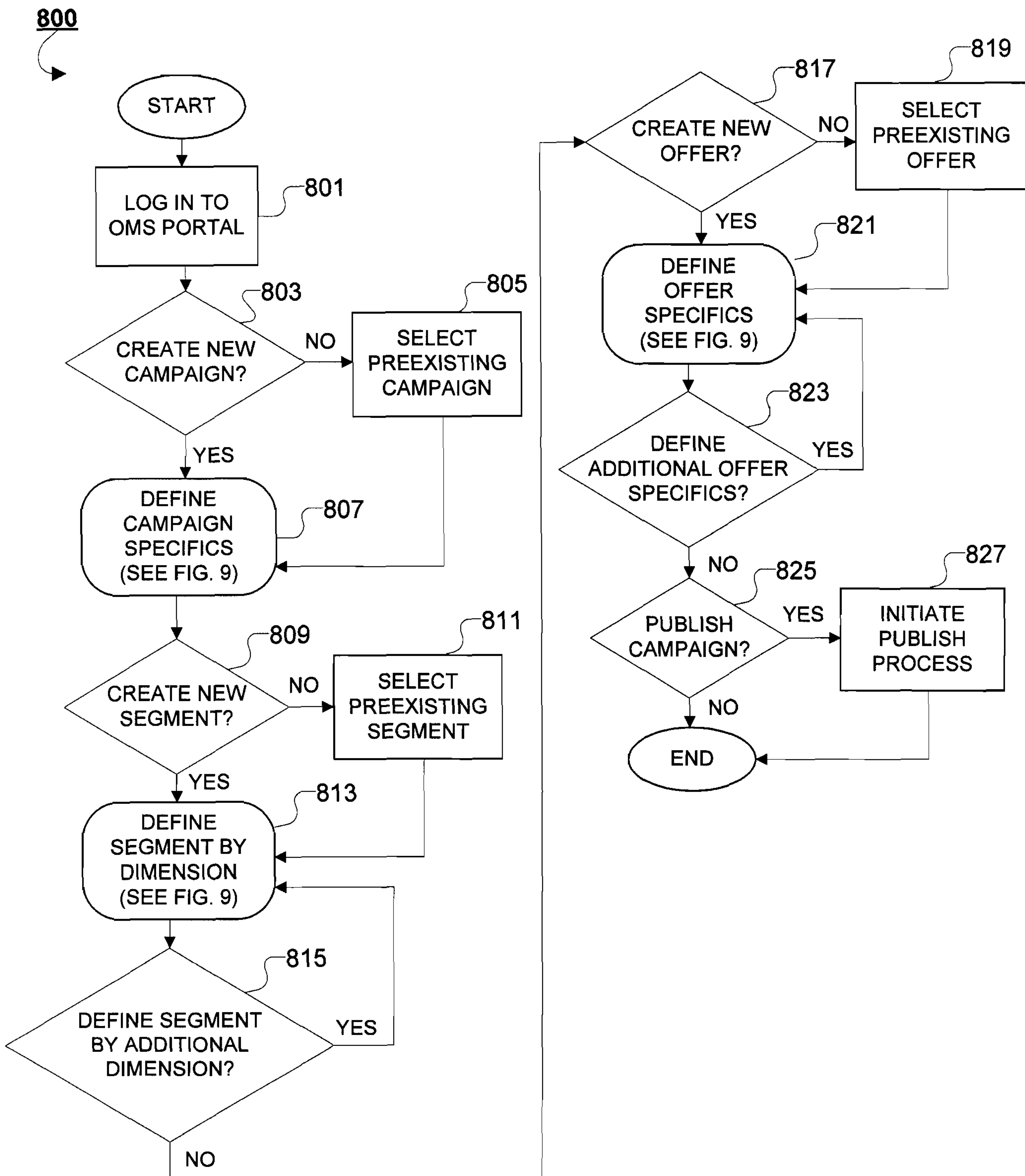


FIG. 8 CAMPAIGN GENERATION PROCESS (ADVERTISER PERSPECTIVE)

900

OMS Advertiser Portal

Pizza Pub

Campaign Menu 903

- Create
- Edit
- Save
- Discard
- Help/Support

My Campaigns 905

- April
- May
- June
-
- Pizza King

Reporting 947

Billing 945

Segment: Non-Inclusive
Est. Population: 58,349,204 941

Consumer Universe

Segment: Pizza King (CA)
Est. Population: 3,245 939

Manage Segments 907

Segment Name: Pizza King (CA) 912

Location(s): CA 911

Merchant(s): Pizza King 913

Spend Amount: \$25.00 915

Target Ratio: 100% 917

in the last 30 Days 912

in the last 90 Days 912

in the last 60 Days 912

Est. Segment Population: 3,245 919

Manage Offers 921

Offer Name: Pizza King (June) 923

Start Date: 06/01/08 925

End Date: 06/30/08 927

Reward Amount: \$10.00 929

Image: None 931

Text: Pizza Pub voted country's best breadsticks! 933

Save 935

Publish Campaign 943

FIG. 9 OMS ADVERTISER PORTAL

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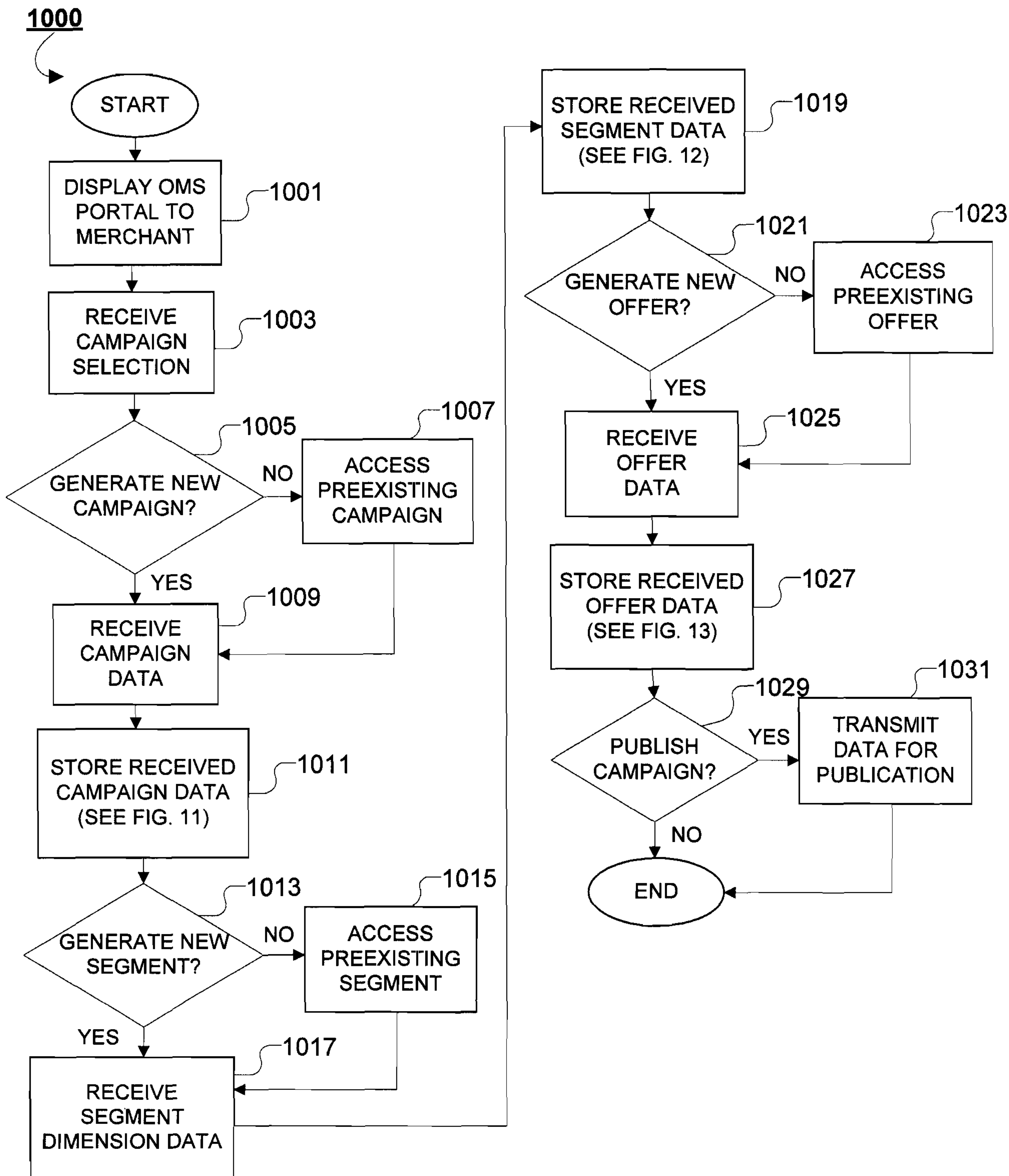


FIG. 10 CAMPAIGN GENERATION PROCESS (SYSTEM PERSPECTIVE)

1100

| 1101 | | 1103 | | 1105 | | 1107 | | 1109 | | 1111 |
|-------------|----------------|-------------|---------------------|-------------------|--|------|--|------|--|------|
| CAMPAIGN ID | ADVERTISER ID | AUTHOR ID | CAMPAIGN START DATE | CAMPAIGN END DATE | | | | | | |
| 10000 | PIZZA PUB | J. THOMPSON | 6/1/08 | 6/30/08 | | | | | | |
| 10001 | ART AVENUE | M. JONES | 6/1/08 | 6/22/08 | | | | | | |
| 10002 | HARDWARE HUT | R. SPIKES | 7/1/08 | 7/31/08 | | | | | | |
| 10003 | SPORTS KINGDOM | G. COFFEE | 8/1/08 | 8/15/08 | | | | | | |
| 10004 | VINTAGE VIDEO | P. BANKS | 8/1/08 | 8/31/08 | | | | | | |

FIG. 11 CAMPAIGN TABLE

1200

| 1101 | | 1201 | | 1203 | | 1205 | | 1207 | |
|-------------|------------|--------------|------------------------------|--------------|--|------|--|------|-------|
| CAMPAIGN ID | SEGMENT ID | LOCATION | MERCHANT CATEGORY / MERCHANT | SPEND AMOUNT | | | | | |
| 10000 | 55555 | CA | PIZZA KING | \$25.00 | | | | | 10/24 |
| 10001 | 55556 | 30324, 30325 | PAINTER'S PLACE | \$30.00 | | | | | |
| 10002 | 55557 | National | HOME & GARDEN | \$10.00 | | | | | |
| 10003 | 55558 | GA, SC, FL | ATHLETIC VILLAGE | \$50.00 | | | | | |
| 10004 | 55559 | 29577 | ENTERTAINMENT | \$15.00 | | | | | |

FIG. 12 SEGMENT TABLE

1300

| 1101 | | 1201 | | 1301 | | 1303 | | 1305 | | 1307 | | 1309 | | 1311 | |
|-------------|------------|----------|--------------|------------------|----------------|----------------------|-------------|------|--|------|--|------|--|------|--|
| CAMPAIGN ID | SEGMENT ID | OFFER ID | OFFER AMOUNT | OFFER START-DATE | OFFER END-DATE | OFFER TEXT | OFFER IMAGE | | | | | | | | |
| 10000 | 55555 | 99999 | \$10.00 | 6/1/08 | 6/30/08 | PIZZA PUB VOTED... | NONE | | | | | | | | |
| 10001 | 55556 | 99998 | \$5.00 | 6/13/08 | 6/28/08 | VISIT ART AVENUE... | LOGO.JPEG | | | | | | | | |
| 10002 | 55557 | 99997 | 5% | 7/1/08 | 7/31/08 | SUPPORT YOUR... | NONE | | | | | | | | |
| 10003 | 55558 | 99996 | \$15.00 | 8/15/08 | 8/17/08 | SPORTS KINGDOM... | PIC.JPEG | | | | | | | | |
| 10004 | 55559 | 99995 | 10% | 9/4/08 | 9/20/08 | CHECK OUT VINTAGE... | NONE | | | | | | | | |

FIG. 13 OFFER TABLE

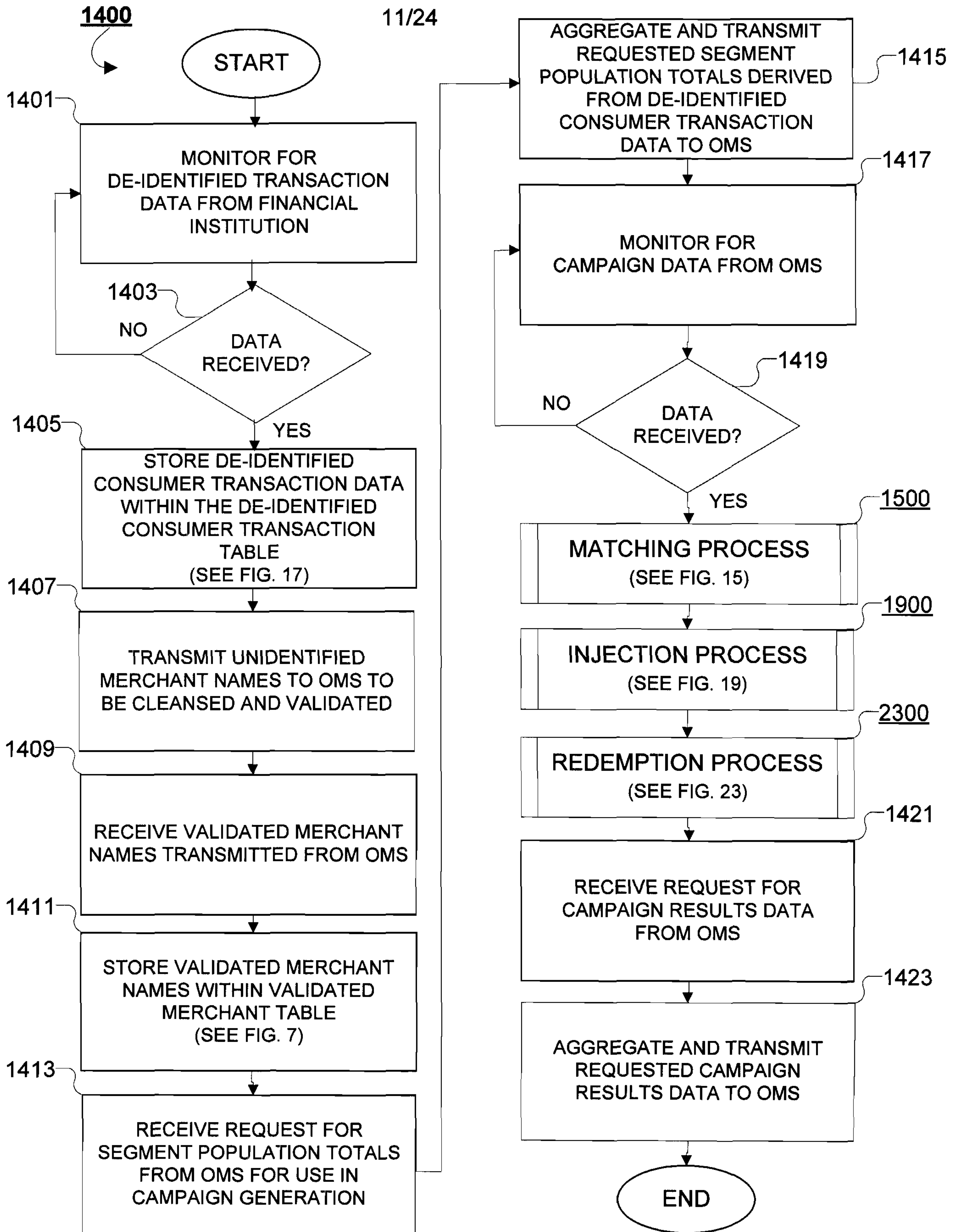


FIG. 14 OVERALL OPS PROCESSES

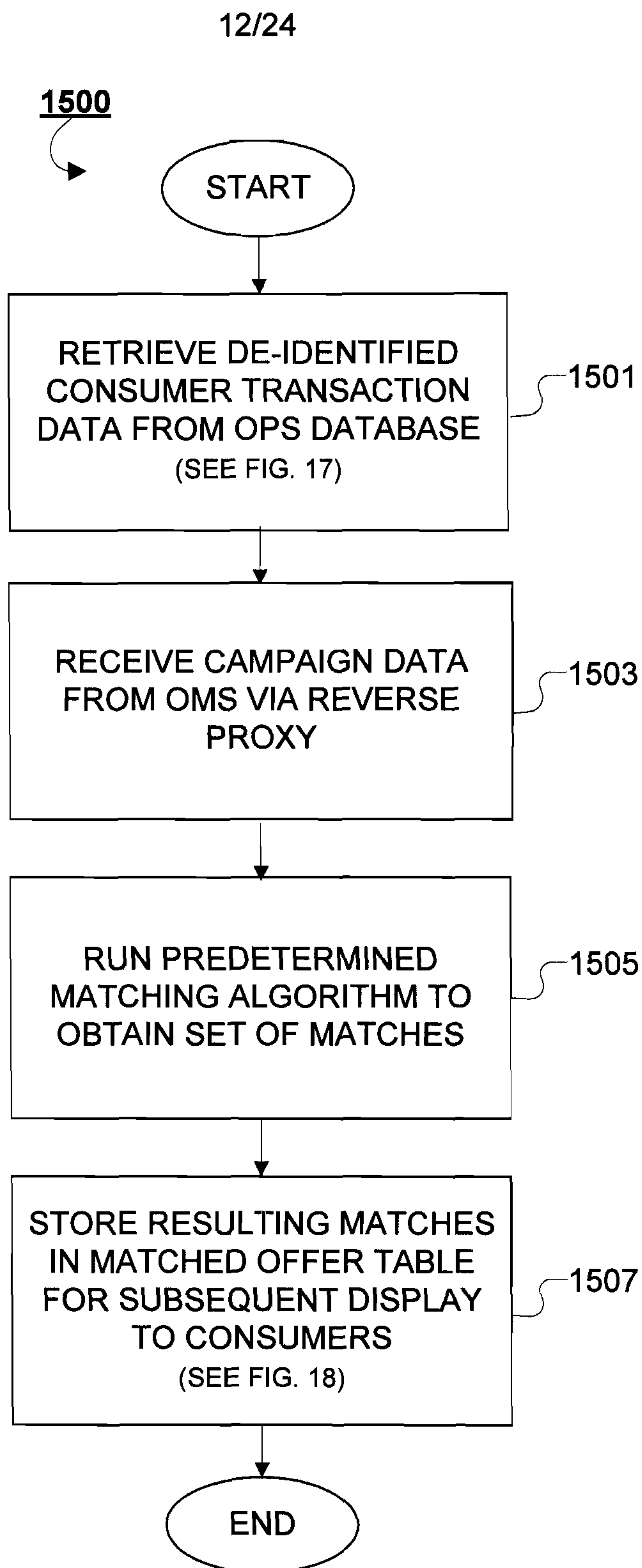


FIG. 15 MATCHING PROCESS

1600

| 1601 | 1603 | 1605 | 1607 | 1609 | 1611 | 1613 | 1615 |
|----------------|--------------|----------------|--------|-----------------|----------|--------------|------|
| ACCOUNT NUMBER | ACCOUNT GUID | TRANSACTION ID | ZIP ID | MERCHANT NAME | AMOUNT | REWARDS TYPE | |
| 2930928402 | 12932 | 55550 | 90210 | PIZZA KING | \$35.98 | CASH BACK | |
| 1029478293 | 23049 | 59875 | 20384 | SKATE ESCAPE | \$81.22 | MILES | |
| 1092387472 | 33145 | 98248 | 30324 | ROY'S RIB SHACK | \$23.43 | POINTS | |
| 958729230 | 10345 | 13324 | 85692 | TIRE TOWN | \$350.06 | NONE | |
| 849392044 | 98594 | 76520 | 13285 | THE BOOK BARN | \$121.73 | CASH BACK | |

FIG. 16 CONSUMER TRANSACTION TABLE (FINANCIAL INSTITUTION)

1700

| 1603 | 1605 | 1607 | 1609 | 1611 | 1613 | 1701 |
|--------------|----------------|--------|-----------------|----------|--------------|------|
| ACCOUNT GUID | TRANSACTION ID | ZIP ID | MERCHANT NAME | AMOUNT | REWARDS TYPE | |
| 12932 | 55550 | 90210 | PIZZA KING | \$35.98 | CASH BACK | |
| 23049 | 59875 | 20384 | SKATE ESCAPE | \$81.22 | MILES | |
| 33145 | 98248 | 30324 | ROY'S RIB SHACK | \$23.43 | POINTS | |
| 10345 | 13324 | 85692 | TIRE TOWN | \$350.06 | NONE | |
| 98594 | 76520 | 13285 | THE BOOK BARN | \$121.73 | CASH BACK | |

13/24

FIG. 17 DE-IDENTIFIED CONSUMER TRANSACTION TABLE

1800

| 1605 | 1301 | 1603 | 1801 | 1803 |
|----------------|----------|--------------|------|------|
| TRANSACTION ID | OFFER ID | ACCOUNT GUID | RANK | |
| 55550 | 99999 | 12932 | 1 | |
| 37953 | 24832 | 49830 | 3 | |
| 20482 | 40568 | 80204 | 2 | |
| 11023 | 12944 | 18375 | 1 | |
| 95840 | 20394 | 24683 | 5 | |

FIG. 18 MATCHED OFFER TABLE

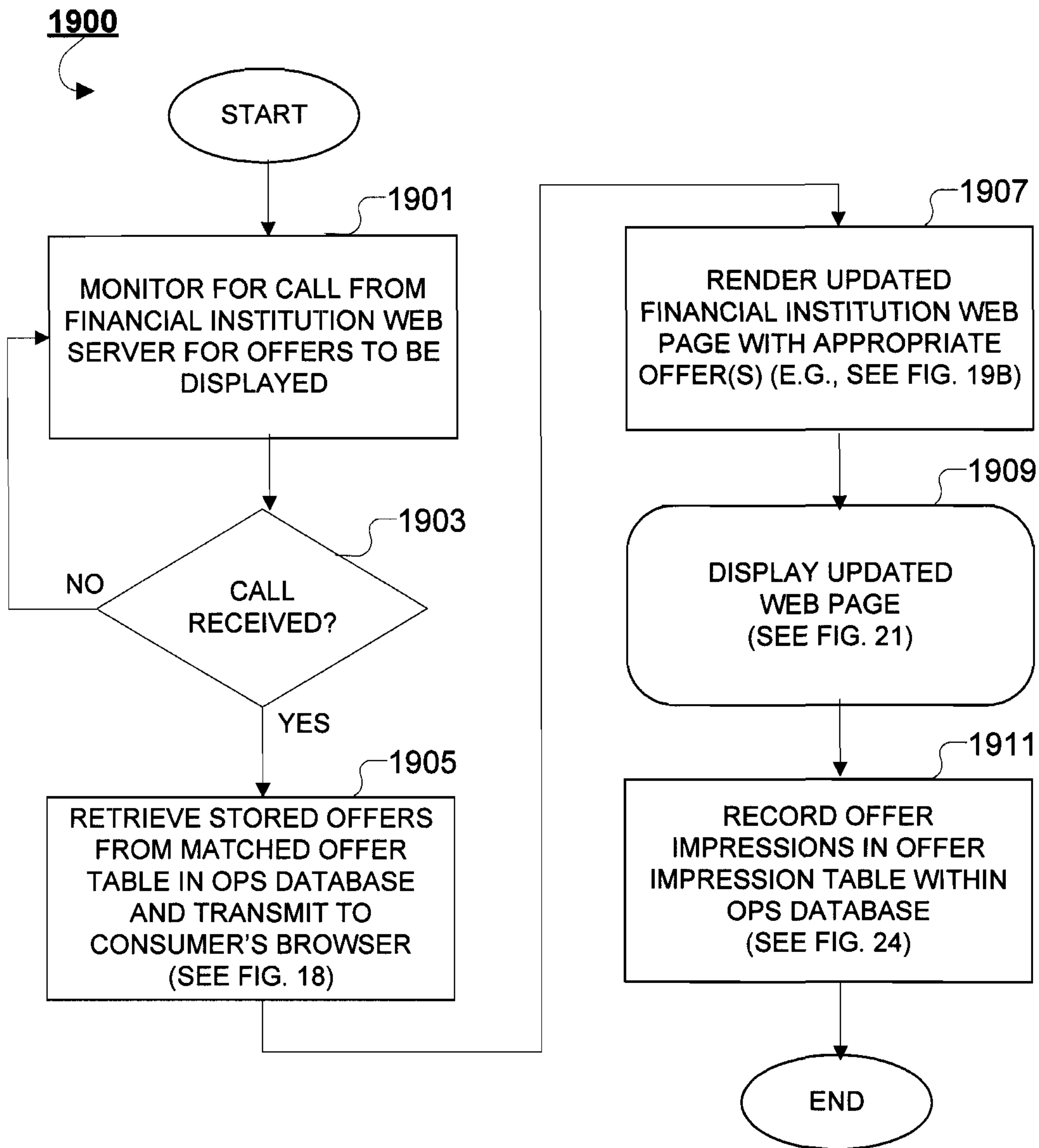
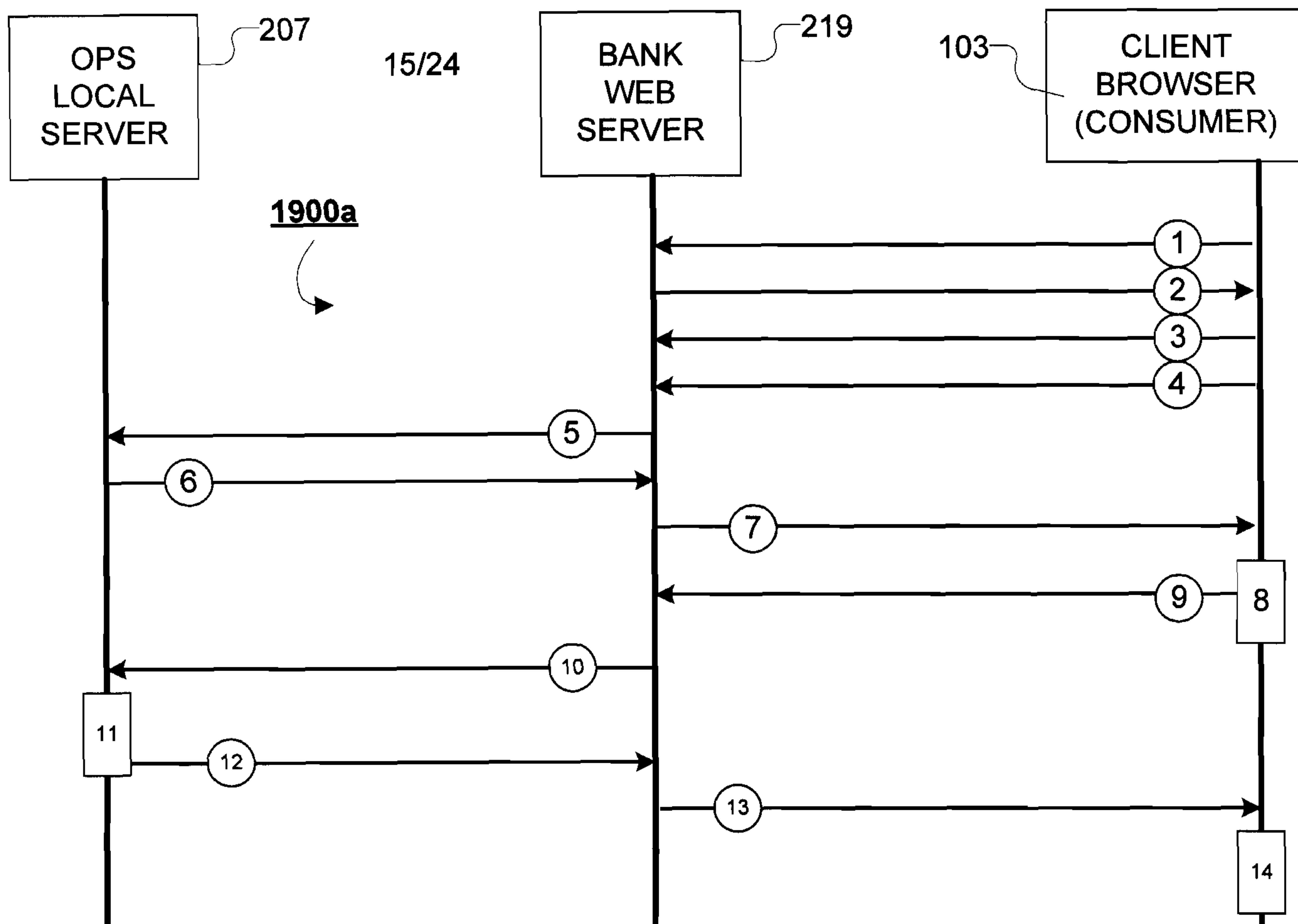


FIG. 19A GENERAL INJECTION PROCESS



1. Bank customer (consumer) initiates secure on-line session with bank (Bank Web Server) through client browser, and requests and receives account history page which includes customer transactions.
2. Bank Web Server returns transactions with DOM injection script included in HTML; client browser renders account history page with such customer transactions.
3. After rendering the web page, the client browser executes DOM injection loader.
4. The DOM injection loader requests the DOM injection script via an asynchronous call to the Bank Web Server.
5. The Bank Web Server recognizes the asynchronous call is intended for OPS (via a proxy or other mechanism) and redirects call to the bank's OPS.
6. OPS sends DOM injection script to the bank's web server.
7. The Bank Web Server returns the DOM injection script in response to the asynchronous request (step 4) from the client browser.
8. The client browser executes the DOM injection script which identifies the customer's account along with the transactions previously rendered on the client browser.
9. The DOM injection script sends an account identifier and transactions to the Bank Web Server via an asynchronous call.
10. The Bank Web Server recognizes the asynchronous call is intended for OPS (via a proxy or other mechanism) and redirects the call to the bank's OPS.
11. OPS identifies the offers to display on the client's browser based on the account identifier and the rendered transactions.
12. OPS sends the offers to the Bank Web Server.
13. The Bank Web Server returns the offers in response to the asynchronous request (step 9) from the client browser.
14. After receiving the response to the asynchronous call, the client browser continues execution of the injection script and inserts the received offers into the previously rendered web page in predetermined manner per script.

FIG. 19B

SEQUENCE DIAGRAM – DOM INJECTION OF TMO(S)

2000

16/24

Account Activity

My Statements

Rewards

2001

Account Number - XXXX XXXX XXXX 1774

Transaction Details

From 6/1/08

To 6/15/08

Submit

Transaction Summary 2007

| Date | Description | Amount |
|---------|--|-----------|
| 6/2/08 | Pizza King | -\$35.98 |
| 6/5/08 | Golfer's Paradise Miniature Golf Playhouse | -\$58.45 |
| 6/5/08 | Bob's Bar-B-Que | -\$12.32 |
| 6/12/08 | Colonial Square Apartments | -\$800.00 |
| 6/14/08 | Main St. Athletic Center | -\$95.52 |

2003

2005

115

2009

FIG. 20 CONSUMER TRANSACTION DISPLAY (CONSUMER FINANCIAL INSTITUTION PORTAL)

2100

17/24

Account Activity
My Statements
Rewards

Account Number - XXXX XXXX XXXX 1774

Transaction Details

From

Submit

Transaction Summary

| Date | Description | Amount |
|---------|--|-----------|
| 6/2/08 | Pizza King \$10 Off any purchase of \$25+ at Pizza Pub in June Pizza Pub voted country's best breadsticks! | -\$35.98 |
| 6/5/08 | Golfer's Paradise Miniature Golf Playhouse | -\$58.45 |
| 6/5/08 | Bob's Bar-B-Que | -\$12.32 |
| 6/12/08 | Colonial Square Apartments | -\$800.00 |

113b

113a

115

2009

FIG. 21 CONSUMER'S TRANSACTION DISPLAY WITH TMO(S) (CONSUMER FINANCIAL INSTITUTION PORTAL)

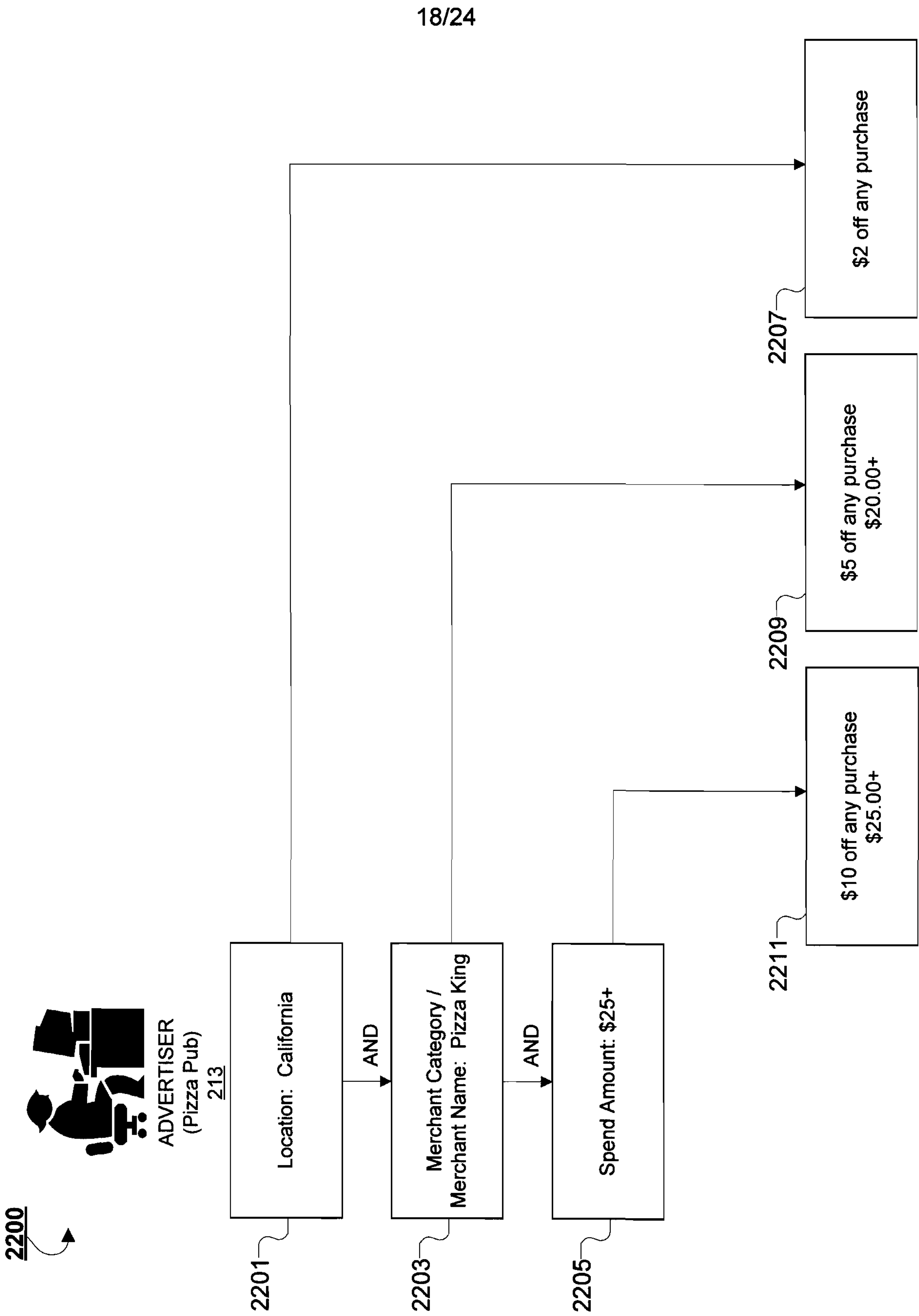


FIG. 22 EXEMPLARY MATCHING BASED ON DIMENSION(S)

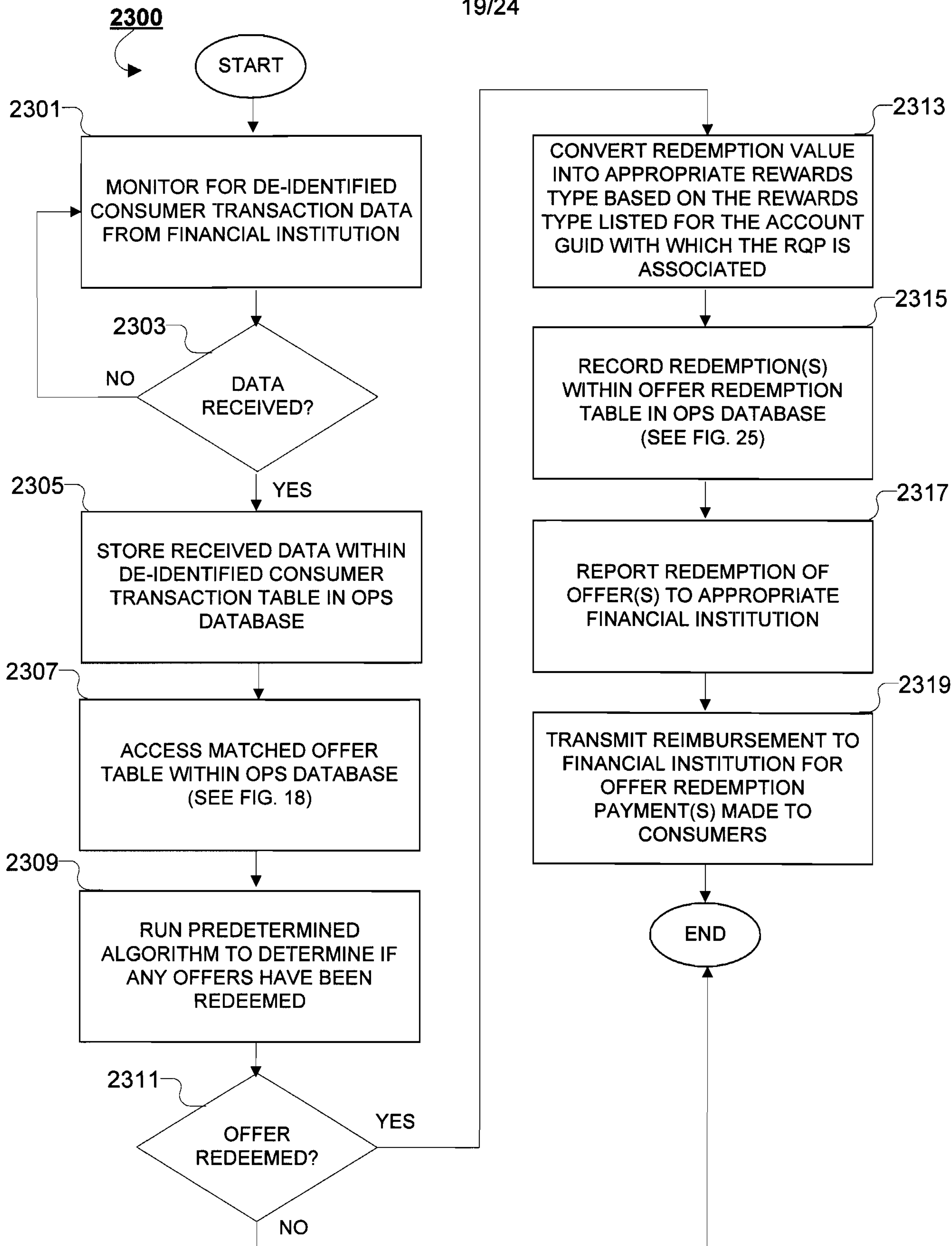


FIG. 23 REDEMPTION PROCESS

2400

| OFFER ID | ACCOUNT GUID | DATE | TIME |
|----------|--------------|---------|----------|
| 99999 | 12932 | 6/4/08 | 12:21 PM |
| 24832 | 49830 | 6/7/08 | 4:32 PM |
| 40568 | 80204 | 6/14/08 | 5:12 AM |
| 12944 | 18375 | 7/1/08 | 10:57 PM |
| 20394 | 24683 | 7/3/08 | 8:44 PM |

FIG. 24 OFFER IMPRESSION TABLE

2500

| OFFER ID | ACCOUNT GUID | DATE | TIME |
|----------|--------------|---------|----------|
| 99999 | 12932 | 6/15/08 | 9:45 PM |
| 40568 | 80204 | 6/19/08 | 11:34 AM |
| 20394 | 24683 | 6/26/08 | 3:07 PM |

FIG. 25 OFFER REDEMPTION TABLE

2600

| OFFER ID | OFFER IMPRESSIONS | OFFER REDEMPTIONS |
|----------|-------------------|-------------------|
| 99999 | 12030 | 81 |
| 40568 | 230449 | 9485 |
| 20394 | 782 | 23 |

FIG. 26 CAMPAIGN RESULTS TABLE

2700

21/24

Account Activity
My Statements
Rewards

Account Number - XXXX XXXX XXXX 1774

Transaction Details

From To

Transaction Summary 1707

| Date | Description | Amount |
|---------|---|-----------|
| 6/2/08 | Pizza King \$10 Off any purchase \$25+ at Pizza Pub in June Pizza Pub voted country's best breadsticks! | -\$35.98 |
| 6/5/08 | Golfer's Paradise Miniature Golf | |
| 6/5/08 | Bob's Bar-B-Que | |
| 6/12/08 | 119 Colonial Square Apartments | -\$200.00 |
| 6/15/08 | Pizza Pub | -\$28.93 |

113a Thank you for visiting Pizza Pub! We hope you enjoyed your meal and the \$10 Off.

113b Green Thumb Grocery - Highest quality natural and organic groceries! \$5.00 for every \$30 you spend in June.

At Gas N' GO paying less for gas is rewarding. \$2.00 off for every \$10 spent in June.

When you are here you're family at Mario's Bistro. \$20.00 off on your first visit in June..

FIG. 27 CONSUMER TRANSACTION DISPLAY WITH REDEMPTION NOTIFICATION (CONSUMER FINANCIAL INSTITUTION PORTAL)

2800

22/24

Account Activity
My Statements
Rewards
2001

Account Number - XXXX XXXX XXXX 1774

Rewards Details

From To

Rewards Summary 2801

| Date | Description | Amount | Total |
|----------------|--------------------|----------------|----------------|
| 6/3/08 | Frank's Fish House | \$5.00 | \$5.00 |
| 6/8/08 | Go-Kart Paradise | \$5.00 | \$10.00 |
| 6/15/08 | Pizza Pub | \$10.00 | \$20.00 |

2803

225

FIG. 28 CONSUMER FINANCIAL INSTITUTION PORTAL REWARDS PAGE

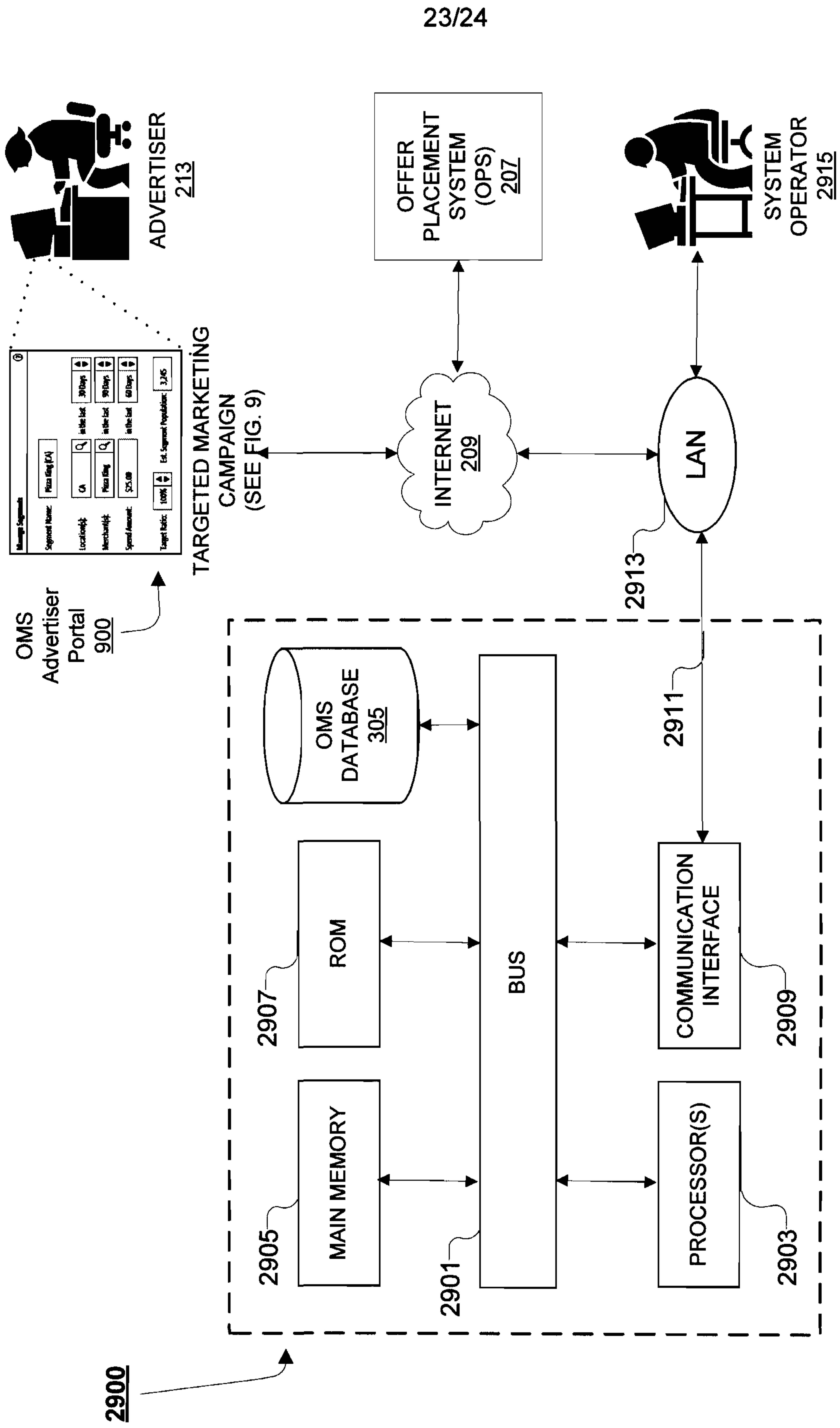


FIG. 29 EXEMPLARY OMS HARDWARE

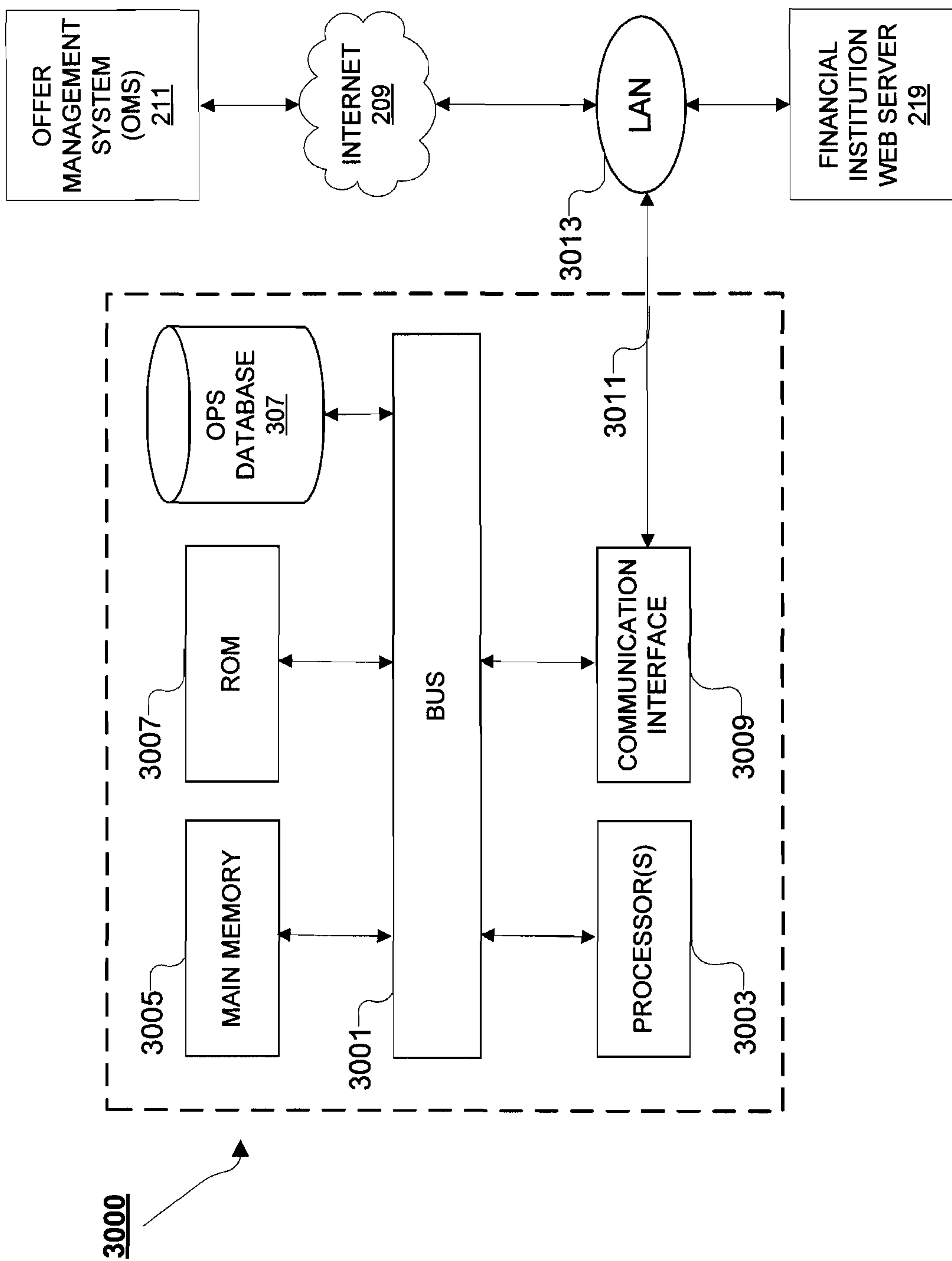


FIG. 30 EXEMPLARY OPS HARDWARE

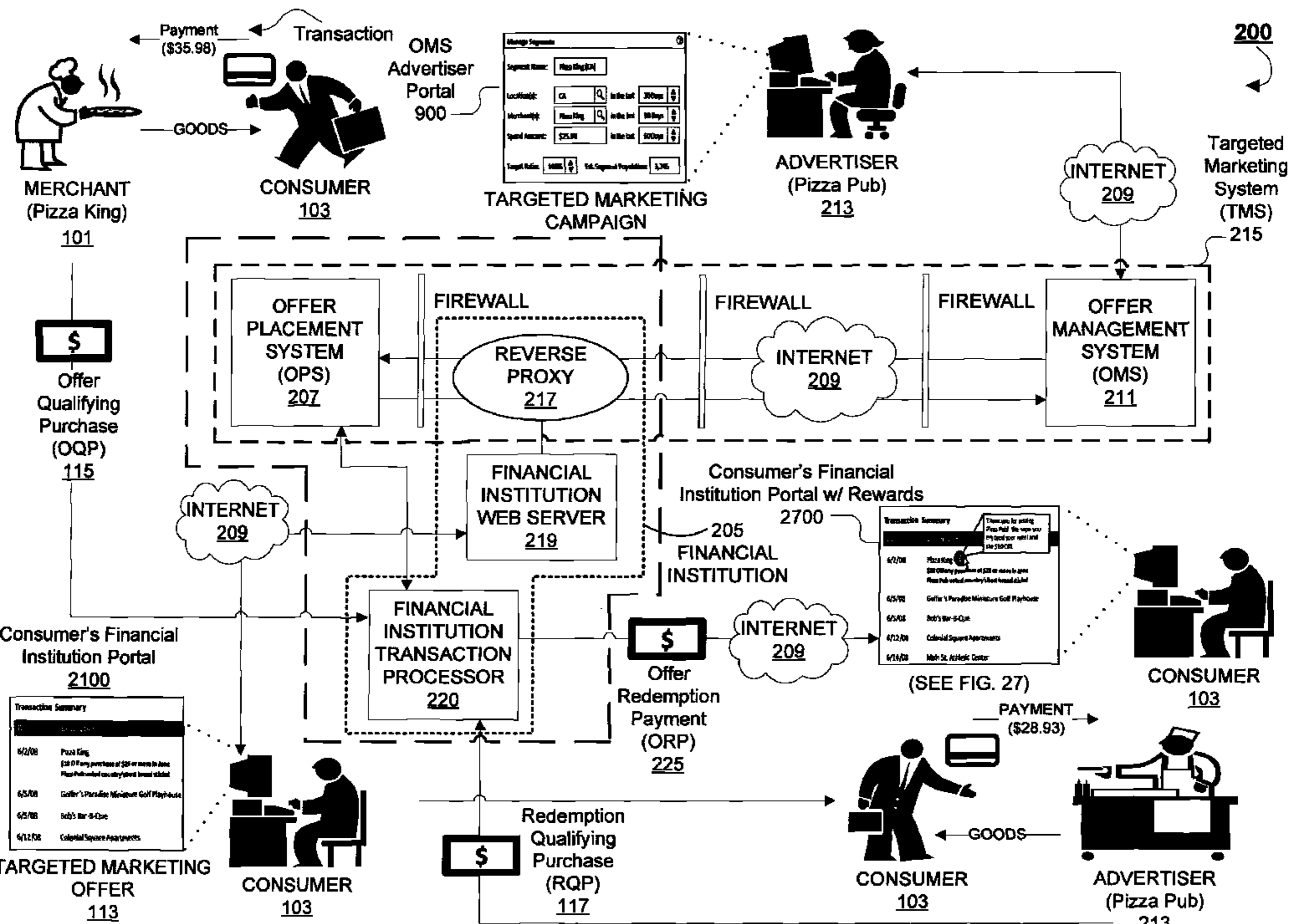


FIG. 2 TARGETED MARKETING SYSTEM OVERVIEW