



US 20130023344A1

(19) **United States**
(12) **Patent Application Publication**
Meurling et al.

(10) **Pub. No.: US 2013/0023344 A1**
(43) **Pub. Date: Jan. 24, 2013**

(54) **GAMING SYSTEM, A GAMING METHOD AND A GAMING SERVER**

Publication Classification

(75) Inventors: **Johan Meurling**, Huddinge (SE);
Pontus Lindblad, Stockholm (SE);
Petter Lindborg, Vendelso (SE)

(51) **Int. Cl.**
A63F 9/24 (2006.01)
(52) **U.S. Cl.** **463/42**

(73) Assignee: **Aristocrat Technologies Australia PTY Limited**, North Ryde (AU)

(57) **ABSTRACT**

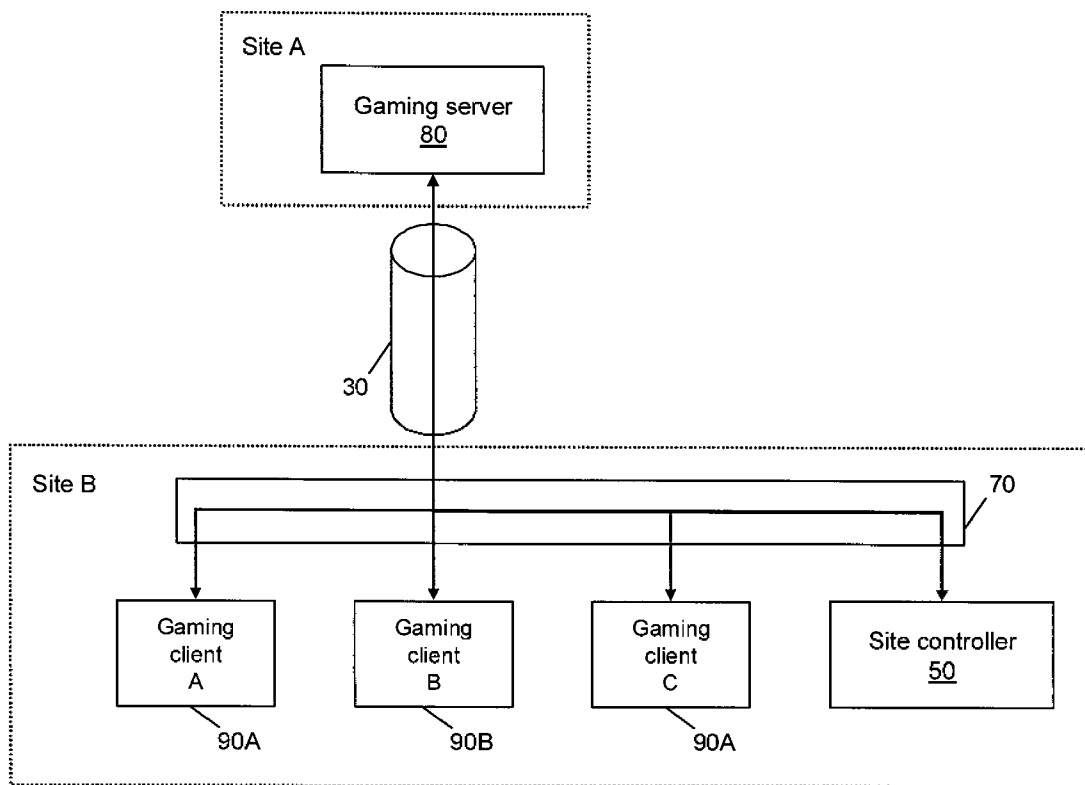
There is provided a gaming system, comprising: a plurality of gaming clients located at a first site; a site controller located at the first site; and a gaming server adapted to generate game outcomes for the gaming clients, the gaming server being located at a second site remote from the first site and in communication with the gaming clients and the site controller over a network, the gaming server comprising an operational database adapted to store operational data of each gaming client; and a communication interface arranged to communicate the operational data of each gaming client to the site controller.

(21) Appl. No.: **13/396,953**

(22) Filed: **Feb. 15, 2012**

(30) **Foreign Application Priority Data**

Feb. 15, 2011 (AU) 2011900495



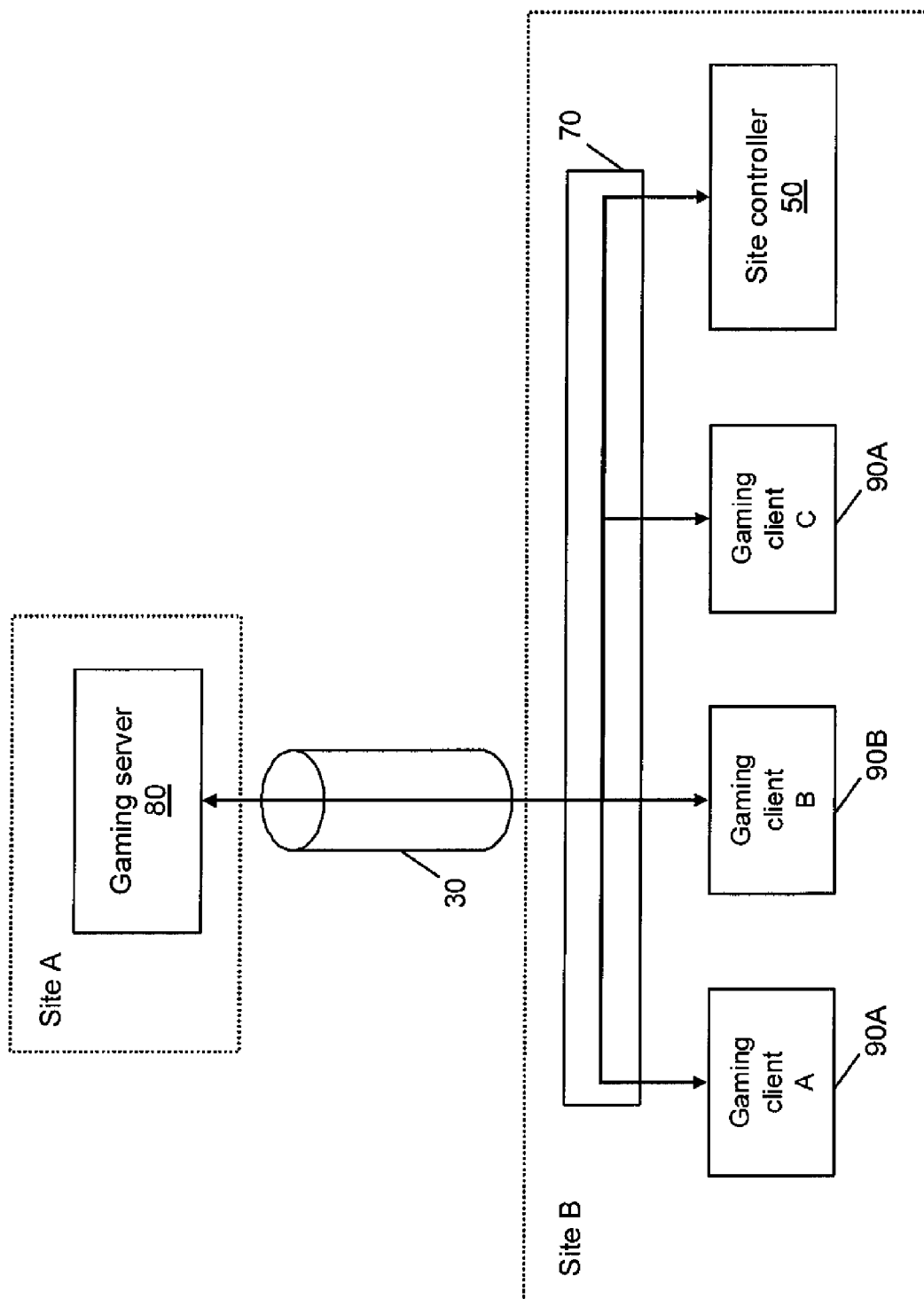


Figure 1

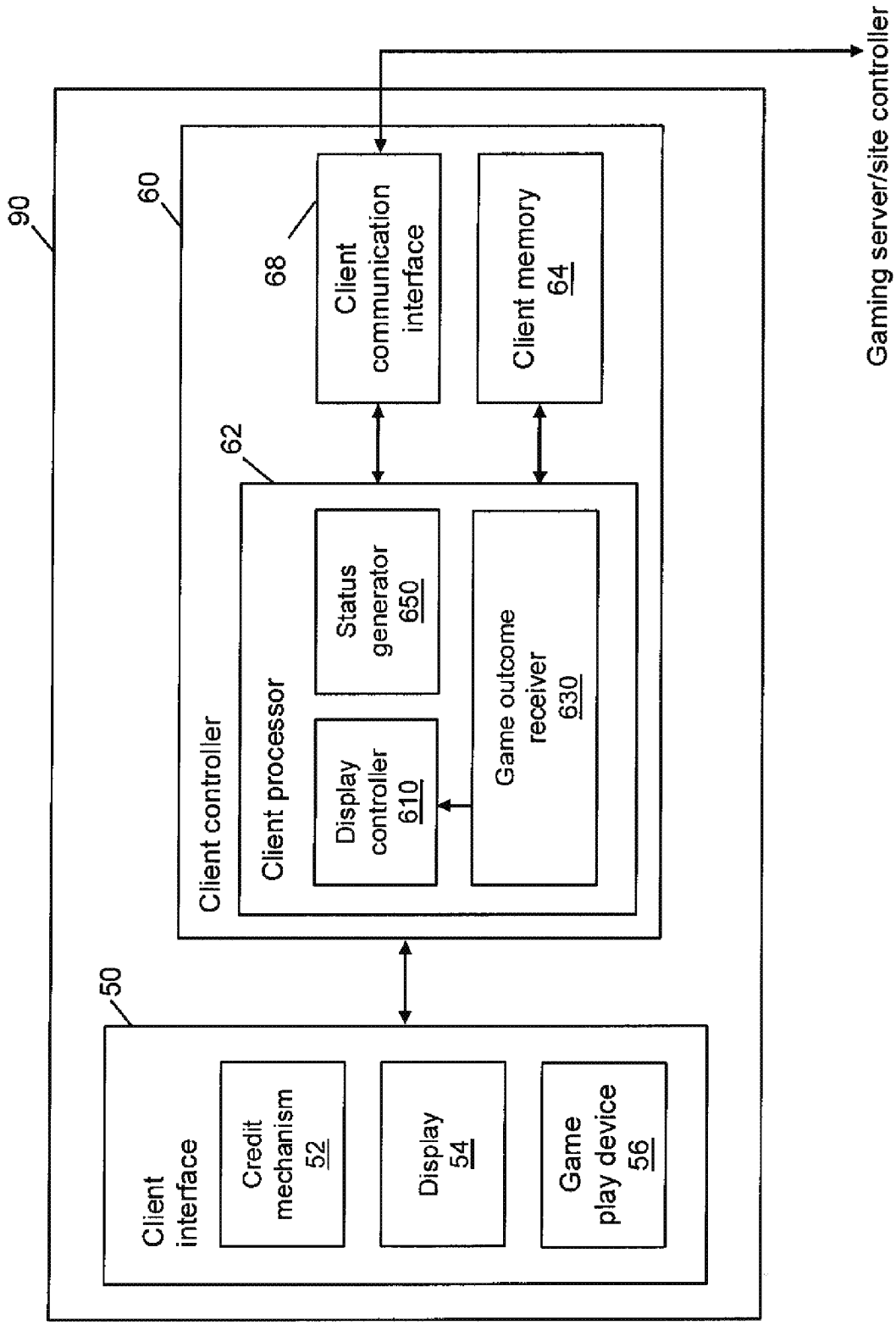


Figure 2

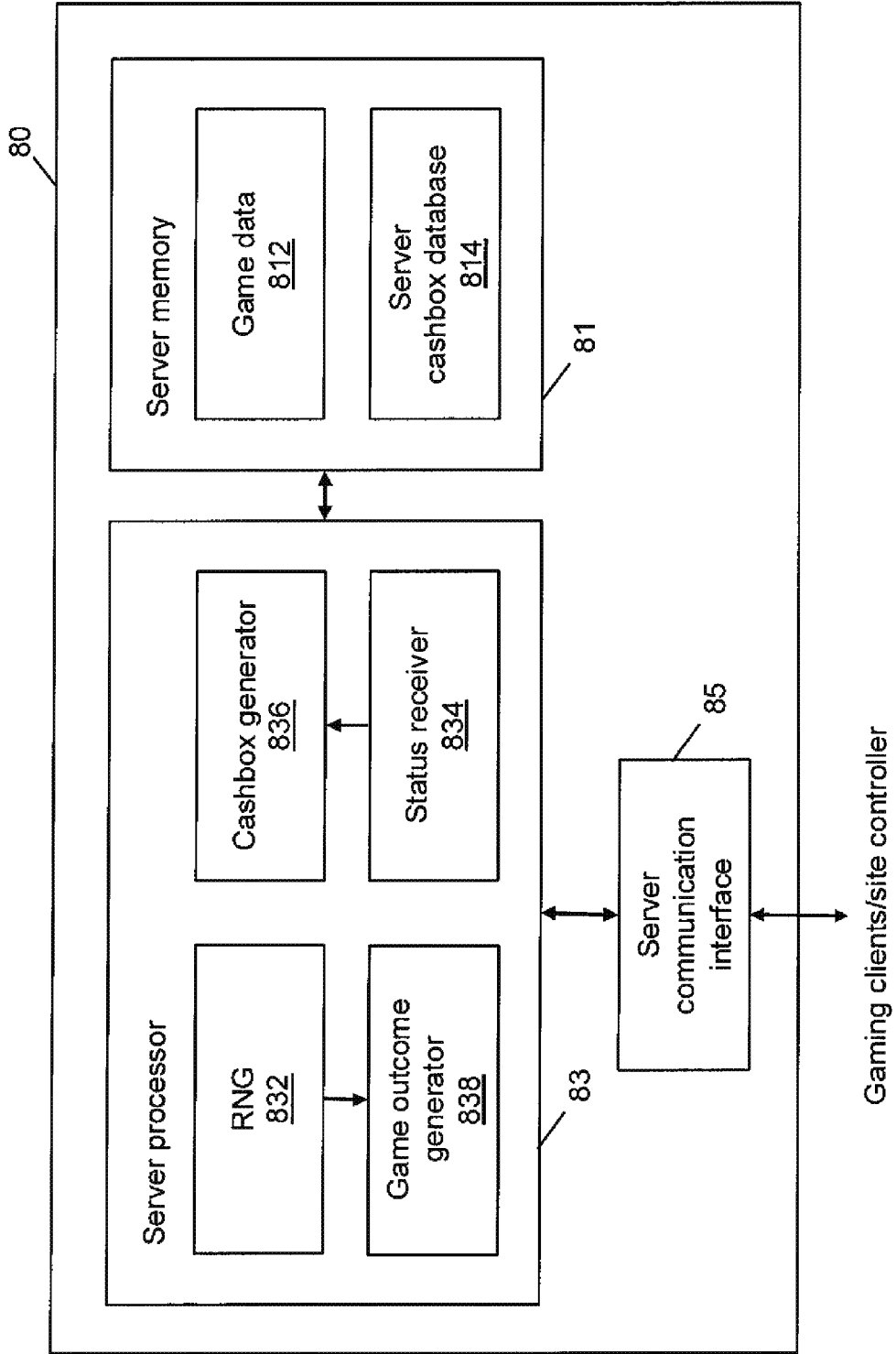


Figure 3

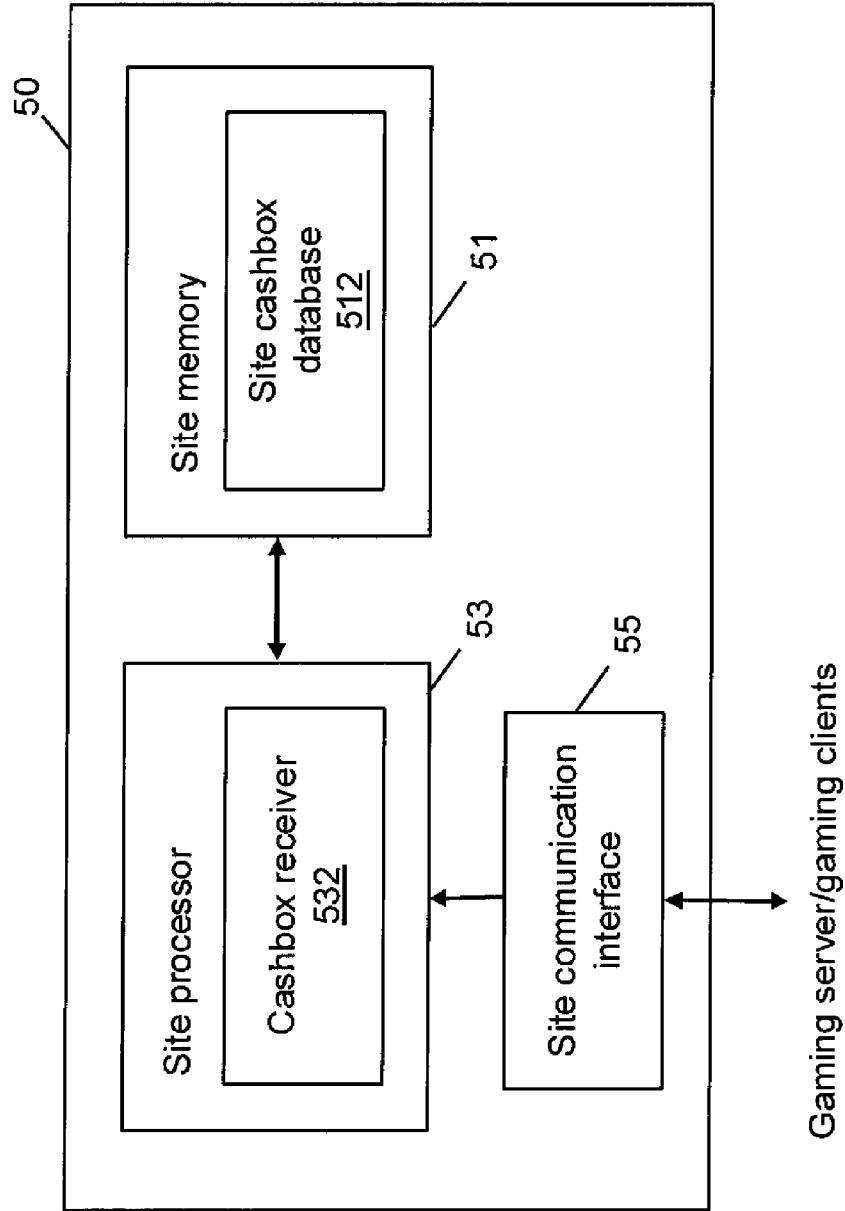


Figure 4

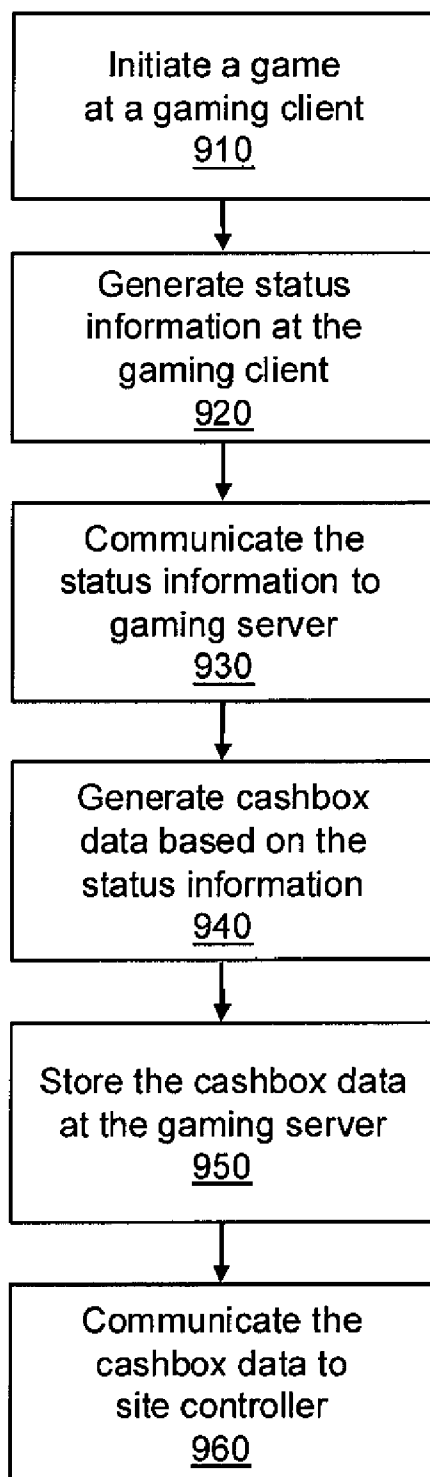


Figure 5

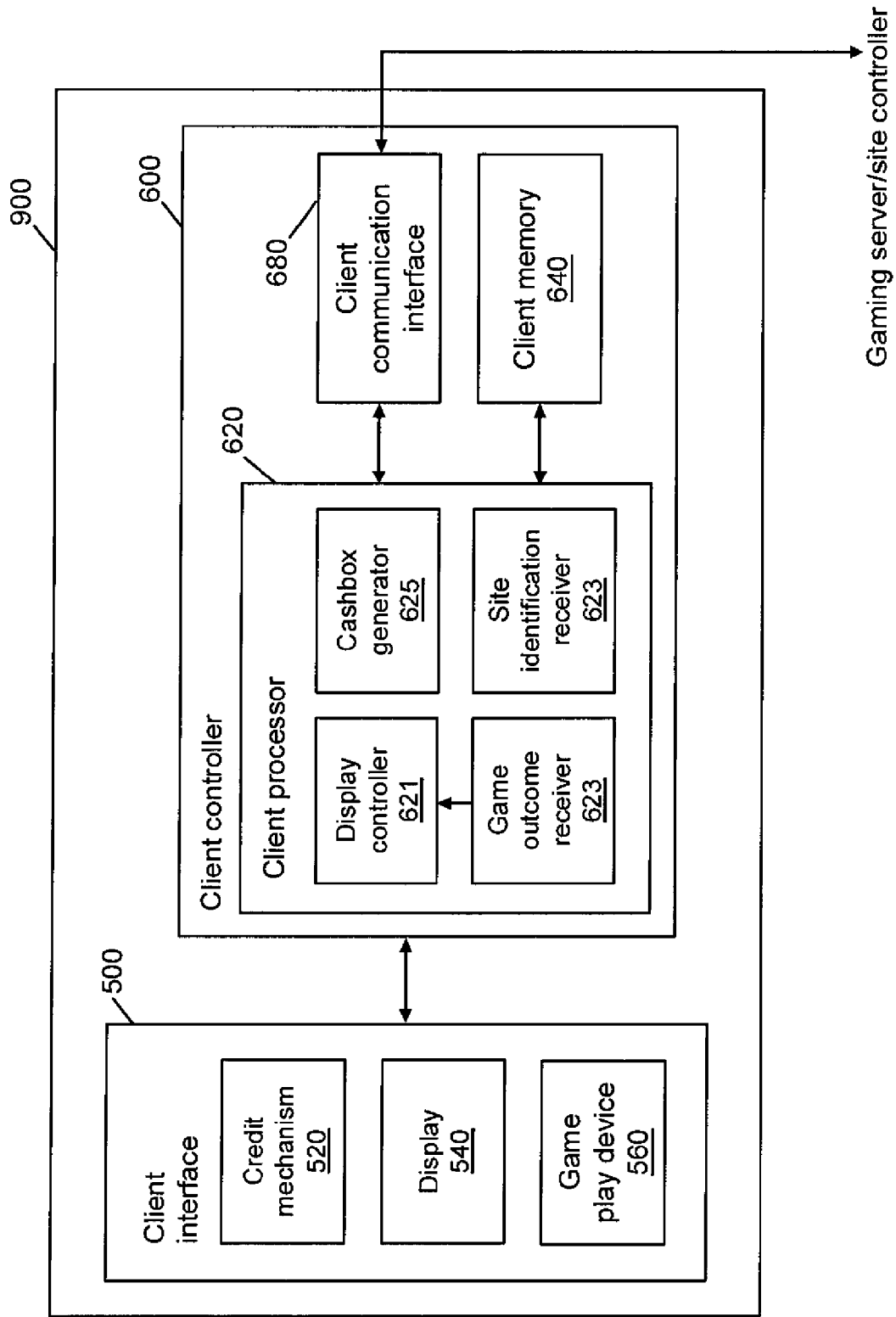


Figure 6

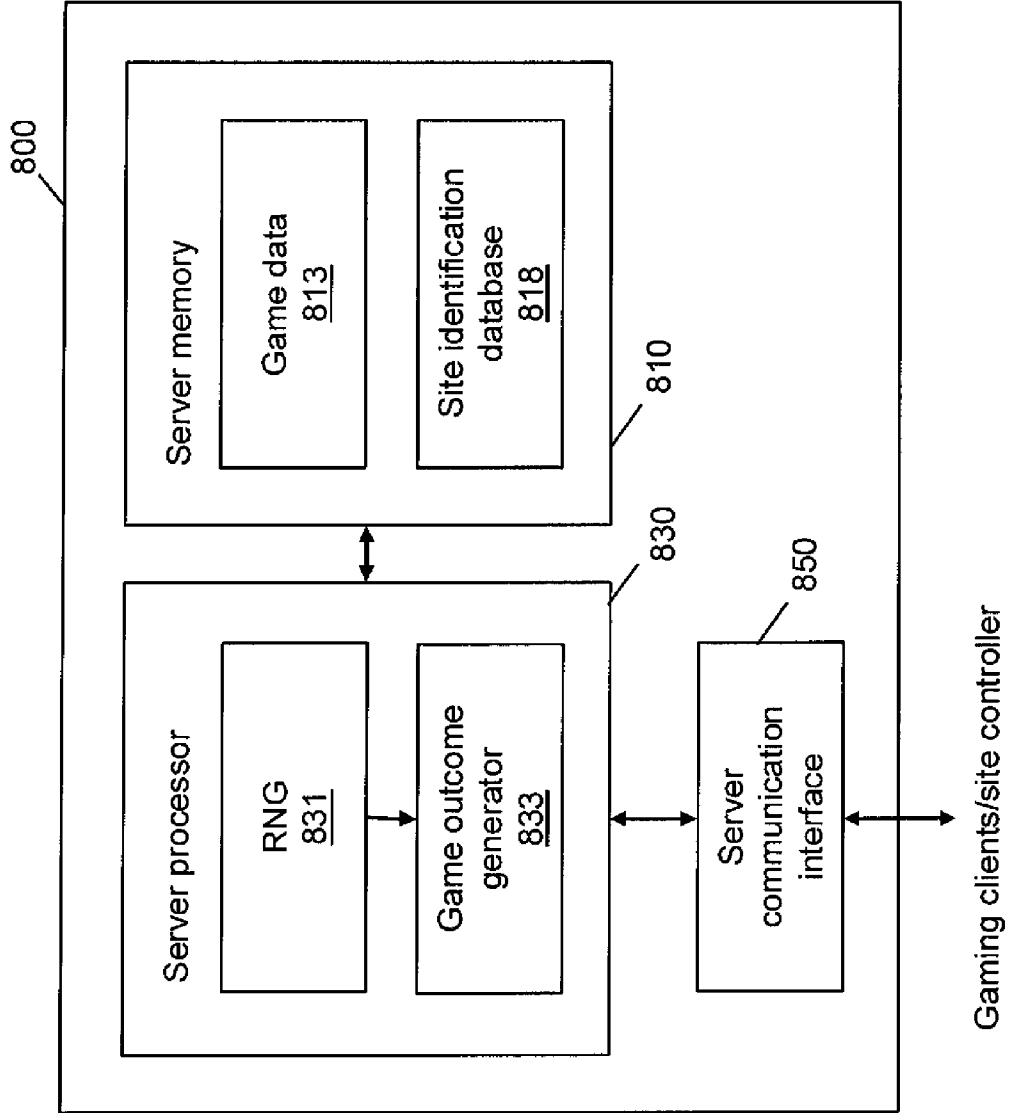


Figure 7

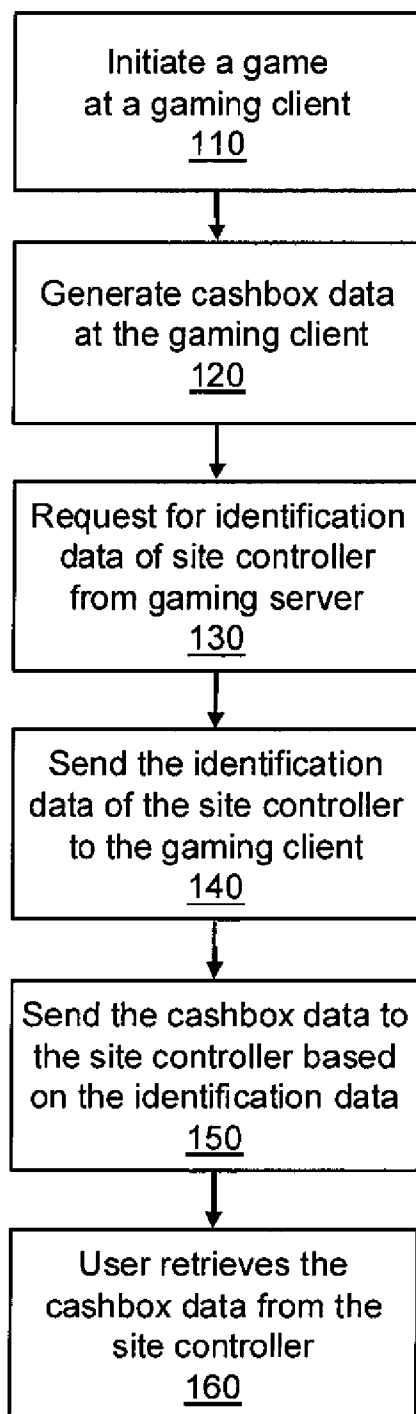


Figure 8

GAMING SYSTEM, A GAMING METHOD AND A GAMING SERVER

RELATED APPLICATION

[0001] This patent claims priority to Australian Provisional Application 2011900495 filed Feb. 15, 2011, which is hereby incorporated herein by reference in its entirety.

FIELD

[0002] The invention relates to a gaming system, a gaming method and a gaming server.

BACKGROUND

[0003] Server based gaming systems have been developed for the gaming industry. In server based systems, the remote gaming server carries out most gaming functions while the client terminal receives player inputs and present game outcomes to the player. As a result, certain information resides on the server.

[0004] There is a need for an alternative gaming system and gaming method.

BRIEF SUMMARY

[0005] In a first aspect, the invention provides a gaming system, including:

[0006] a plurality of gaming clients located at a first site;

[0007] a site controller located at the first site; and

[0008] a gaming server adapted to generate game outcomes for the gaming clients, the gaming server being located at a second site remote from the first site and in communication with the gaming clients and the site controller over a network, the gaming server including:

[0009] an operational database adapted to store operational data of each gaming client; and

[0010] a communication interface arranged to communicate the operational data of each gaming client to the site controller.

[0011] In an embodiment, the gaming server includes a status receiver arranged to receive status information of each gaming client.

[0012] In an embodiment, the operational data includes cashbox data of each gaming client, the operational database is a cashbox database adapted to store the cashbox data of each gaming client, and the gaming server includes a cashbox generator arranged to generate the cashbox data of each gaming client based on the status information of the gaming client.

[0013] In an embodiment, the gaming server includes an outcome generator arranged to generate the game outcomes for the gaming clients.

[0014] In an embodiment, the network is a wide area network.

[0015] In an embodiment, the status information of each gaming client includes depositing of cash or emptying of cashbox.

[0016] In an embodiment, the status information of each gaming client includes one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

[0017] In an embodiment, the gaming server communicates with the gaming clients and the site controller via one or more secure channels.

[0018] In an embodiment, the gaming server is in data communication with gaming clients at a plurality of sites, and the gaming server stores operational data in the operational database such that the operational data is associated with a specific site.

[0019] In a second aspect, the invention provides a gaming method, including:

[0020] storing operational data of a plurality of gaming clients at a gaming server adapted to generate game outcomes for the gaming clients, the gaming clients being located at a first site, the gaming server being located at a second site remote from the first site; and

[0021] communicating the operational data of each gaming client from the gaming server to a site controller located at the first site.

[0022] In an embodiment, the gaming method further includes receiving status information of each gaming client from the gaming client at the gaming server via a network.

[0023] In an embodiment, the operational data includes cashbox data of each gaming client, and the gaming method further includes generating the cashbox data of each gaming client at the gaming server based on the status information of the gaming client.

[0024] In an embodiment, the gaming method further includes communicating the game outcome for each gaming client from the gaming server to the gaming client via a network.

[0025] In an embodiment, the network is a wide area network.

[0026] In an embodiment, the status information of each gaming client includes depositing of cash or emptying of cashbox.

[0027] In an embodiment, the status information of each gaming client includes one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

[0028] In an embodiment, the communication between the gaming server and the site controller is via a secure channel.

[0029] In an embodiment, the gaming method further includes storing at the gaming server operational data of a further plurality of gaming clients located in a third site remote from the first and second sites, and operational data is stored in the operational database such that the operational data is associated with a specific site.

[0030] In a third aspect, the invention provides a gaming server for generating game outcomes for a plurality of gaming clients located at a first site, the gaming server being located at a second site remote from the first site, the gaming server including:

[0031] an operational database adapted to store operational data of each gaming client; and

[0032] a communication interface arranged to communicate the operational data of each gaming client to a site controller located at the first site.

[0033] In an embodiment, the operational data includes cashbox data of each gaming client, and the operational database is a cashbox database adapted to store the cashbox data of each gaming client.

[0034] In an embodiment, the gaming server further includes:

[0035] a status receiver arranged to receive status information of each gaming client; and

[0036] a cashbox generator arranged to generate the cashbox data of each gaming client based on the status information of the gaming client.

[0037] In an embodiment, the status information of each gaming client includes depositing of cash or emptying of cashbox.

[0038] In an embodiment, the status information of each gaming client includes one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

[0039] In an embodiment, the gaming server further includes an outcome generator arranged to generate the game outcomes for the gaming clients.

[0040] In an embodiment, the gaming server is in communication with the gaming clients and the site controller over a network.

[0041] In an embodiment, the network is a wide area network.

[0042] In an embodiment, the communication between the gaming server and the site controller is via a secure channel.

[0043] In an embodiment, the operational database is adapted to store operational data of a plurality of gaming clients located at a plurality of sites, and operational data is stored in the operational database such that the operational data is associated with a specific site.

[0044] In a fourth aspect, the invention provides a site controller located at the first site, the site controller being in communication with a gaming server adapted to generate game outcomes for a plurality of gaming clients located at the first site, the gaming server being located at a second site remote from the first site and including an operational database adapted to store operational data of each gaming client, the site controller including a site receiver arranged to receive the operational data of each gaming client from the gaming server.

[0045] In an embodiment, the operational data includes cashbox data of each gaming client, the operational database is a cashbox database adapted to store the cashbox data of each gaming client, and the site receiver is a cashbox receiver arranged to receive the cashbox data of each gaming client from the server.

[0046] In an embodiment, the site controller receives the operational data of each gaming client from the gaming server over a network.

[0047] In an embodiment, the network is a wide area network.

[0048] In an embodiment, the site controller receives the operational data of each gaming client from the gaming server via a secure channel.

[0049] In an embodiment, the operational database is adapted to store operational data of a plurality of gaming clients located in a plurality of sites and operational data is stored in the operational database such that the operational data is associated with a specific site.

[0050] In a fifth aspect, the invention provides a gaming system, including:

[0051] a plurality of gaming clients located at a first site;

[0052] a site controller; and

[0053] a gaming server adapted to generate game outcomes for the gaming clients, the gaming server being located at a second site remote from the first site and including a site database including identification data of the site controller;

[0054] wherein each gaming client is adapted to:

[0055] receive the identification data of the site controller from the gaming server; and

[0056] communicate operational data to the site controller based on the identification data received from the gaming server.

[0057] In an embodiment, the operational data includes cashbox data of each gaming client.

[0058] In an embodiment, the gaming server includes an outcome generator arranged to generate the game outcomes for the gaming clients.

[0059] In an embodiment, the gaming server communicates with the gaming clients and the site controller via one or more secure channels.

[0060] In an embodiment, the gaming server is in data communication with gaming clients at a plurality of sites, and the site database includes identification data of a plurality of site controllers.

[0061] In a sixth aspect, the invention provides computer program code which when executed implements any one of the above method.

[0062] In a seventh aspect, the invention provides a tangible computer readable medium including the above computer program code.

BRIEF DESCRIPTION OF DRAWINGS

[0063] The invention is further explained by means of the following non-limiting examples and in conjunction with the accompanying drawings, in which:

[0064] FIG. 1 is a schematic diagram of a server based gaming system;

[0065] FIG. 2 is a block diagram of the functional components of a gaming client;

[0066] FIG. 3 is a block diagram of the functional components of a gaming server;

[0067] FIG. 4 is a block diagram of the functional components of a site controller;

[0068] FIG. 5 is a flow chart of a gaming method;

[0069] FIG. 6 is a block diagram of the functional components of an alternative gaming client;

[0070] FIG. 7 is a block diagram of the functional components of an alternative gaming server; and

[0071] FIG. 8 is a flow chart of an alternative gaming method.

[0072] The foregoing summary, as well as the following detailed description of certain implementations of the methods, apparatus, systems, and/or articles of manufacture described herein, will be better understood when read in conjunction with the appended drawings. It should be understood, however, that the methods, apparatus, systems, and/or articles of manufacture described herein are not limited to the arrangements and instrumentality shown in the attached drawings.

DETAILED DESCRIPTION

[0073] Although the following discloses example methods, apparatus, systems, and articles of manufacture including, among other components, firmware and/or software executed on hardware, it should be noted that such methods, apparatus, systems, and/or articles of manufacture are merely illustrative and should not be considered as limiting. For example, it is contemplated that any or all of these firmware, hardware, and/or software components could be embodied exclusively in hardware, exclusively in software, exclusively in firmware,

or in any combination of hardware, software, and/or firmware. Accordingly, while the following describes example methods, apparatus, systems, and/or articles of manufacture, the examples provided are not the only way(s) to implement such methods, apparatus, systems, and/or articles of manufacture.

[0074] When any of the appended claims are read to cover a purely software and/or firmware implementation, at least one of the elements in an at least one example is hereby expressly defined to include a tangible medium such as a memory, DVD, CD, etc. storing the software and/or firmware.

[0075] An embodiment of the invention provides a server based gaming system including a site controller and a plurality of gaming clients (also known as gaming terminals) located at a first site, and a gaming server located at a second site remote from the first site. In the system, operational data (for example, cashbox data such as the cashbox balance) of each of the plurality of gaming clients is generated and stored in the gaming server and communicated from the gaming server to the site controller. Advantageously, the gaming system allows access to operational data at a local centralized point: the site controller located at the first site.

[0076] FIG. 1 is a schematic diagram of an embodiment of a server based gaming system. The system includes a gaming server **80** located at a first site ("site A") and a plurality of gaming clients **90A**, **90B**, **90C** located at a second site ("site B") remote from the first site. The server based gaming system according to the present embodiment is based on a client/server architecture where the majority of gaming and administrative functions are performed by the gaming server **80**. In this context, a gaming server generally means hardware and software units in a central system that provide server functions, database functions and other centralized functions to connectable gaming clients.

[0077] The system also includes a site controller **50** located at the same site as the plurality of gaming clients **90A**, **90B**, **90C** (that is, at site B). Persons skilled in the art will appreciate the distance between site A and site B can vary. For example, the two sites may be in the same city or they may be in different cities.

[0078] The gaming server **80** is in communication with the gaming clients **90A**, **90B**, **90C** and the site controller **50** over a network. The plurality of gaming clients **90A**, **90B**, **90C** and the site controller **50** are connected in the same Local Area Network (LAN) **70** (for example, an Ethernet network, a WiFi network etc). The gaming server **80** is connected to the site controller **50** and the plurality of gaming clients **90A**, **90B**, **90C** via a Wide Area Network (WAN) **30** (such as the Internet). It is envisaged that each of the gaming clients **90A**, **90B**, **90C** communicates with the gaming server **80** via separate secure channels. It is envisaged that communications between the site controller **50** and the gaming server is also via a secure channel.

[0079] In the gaming system of FIG. 1, there are three gaming clients **90A**, **90B**, **90C**. However, it will be appreciated that there can be two or more than three gaming clients.

[0080] Persons skilled in the art will appreciate that the system may additionally include a router to route the communications between the gaming server **80** and each of the gaming clients **90A**, **90B**, **90C** and the communications between the site controller **50** and the gaming server **80**.

[0081] In FIG. 1, the gaming clients **90A**, **90B**, **90C** and the site controller **50** communicate with the gaming server **80** via the same physical link. Persons skilled in the art will appreciate

that each of the gaming clients **90A**, **90B**, **90C** and the site controller **50** may be connected to the gaming server **80** via separate physical links.

[0082] Persons skilled in the art will appreciate that the gaming server **80** may communicate with other devices from other networks (for example, a corporate network, another WAN etc). For example, it is envisaged that, in an alternative embodiment, the gaming server **80** may be in communication with gaming clients from a plurality of other sites remote from site A and site B over different WANs.

[0083] FIG. 2 is a block diagram of the functional components of one of the gaming clients **90**. Persons skilled in the art will appreciate that a gaming client is typically provided with data processors, memory, data communications interfaces, control programs, user input/output interfaces etc.

[0084] In this embodiment, the gaming client **90** is provided with a client interface **50** and a client controller **60**. The client interface **50** includes a credit mechanism **52**, a display **54** and a game play device **56**. Examples of credit mechanism that are typically provided in gaming clients include: coin input/output chutes, bill collectors/acceptors etc. Examples of displays that are typically provided in gaming clients include: Cathode Ray Tube (CRT) displays, Liquid Crystal Displays (LCDs), plasma screens etc. Examples of game play devices that are typically provided in gaming clients include: buttons, pull handles, touch screens etc. Persons skilled in the art will appreciate that the credit mechanism **52**, the display **54** and the game play device **56** need not be ones that are typically included in gaming clients. For example, while buttons are typically used to allow a player to place a wager and initiate a play of a game, any input device that enables the player to input game play instructions may be used. Persons skilled in the art will appreciate that additional hardware may be included as part of the gaming client **90**, or hardware may be omitted based on a specific implementation. For example, an alternative gaming client may include a credit mechanism or include more than one display.

[0085] The client controller **60** includes a client communication interface **68**, a client memory **64** and a client processor **62**. Herein, the term "processor" is used to refer to any device that can process player instructions from the game play device **56** and/or the credit mechanism **52** of the client interface **50**. Examples of processors that are typically provided in the gaming client include: a microprocessor (sometimes also referred to as a Central Processing Unit (CPUs)), microcontroller, programmable logic device etc. Persons skilled in the art will appreciate that the processor is typically mounted on a circuit board, and that instructions and data to control operation of the processor are stored in a memory, which is in data communication with the processor.

[0086] In this embodiment, the client processor **62** is arranged to implement a set of modules based on program code stored in memory **64**. Persons skilled in the art will appreciate that the modules are based typically on program code and data stored in a memory. Persons skilled in the art will also appreciate that the modules need not be implemented using a processor or be based on program code and data stored in a memory and that one or more of the modules could be implemented in some other way, for example, by a dedicated circuit such as an Application Specific Integrated Circuit (ASIC), a Field Programmable Gate Array (FPGA) etc.

[0087] The modules implemented by the client processor **62** include a status generator **650**, a game outcome receiver

630 and a display controller **610**. The status generator **650** is arranged to generate status information of the gaming client **90**. Examples of status information that may be generated by the status generator **650** include: depositing of cash, emptying of cashbox, starting of game, ending of game, starting of service session, ending of service session, starting of player session, ending of player session etc. In use, the status generator **650** generates status information during game play in response to a player operating the game play device **56** and/or the credit mechanism **52** of the client interface **50** and communicates the status information to the client communication interface **68** which, in turn, communicates the status information to the gaming server **80**. For example, when the player deposits cash for playing a game at the gaming client **90**, the status generator **650** generates status information indicating that cash has been deposited at the gaming client **90** and communicates this to the client communication interface **68** which, in turn, communicates to the gaming server **80** that cash has been deposited at the gaming client **90**.

[**0088**] The game outcome receiver **630** is arranged to receive game outcomes from the gaming server **80** via the client communication interface **68**. In use, the game outcome receiver **630** receives game outcome from the gaming server **80** whenever a game is played at the gaming client **90**.

[**0089**] The display controller **610** is arranged to receive communications from the game outcome receiver **630** to control the display **54** of the client interface **50** to display the game to the player. For example, the display controller **610** may control the display **54** to display a winning combination based on a game outcome received by the game outcome receiver **630**.

[**0090**] Persons skilled in the art will appreciate that, in other embodiments, the client processor **62** may implement additional modules, for example, an audio controller for controlling an audio output device.

[**0091**] As indicated above, the client controller **60** also includes a client communication interface **68**. The client communication interface **68** enables communication between a gaming client **90** and the gaming server **80**. Persons skilled in the art will appreciate that the client communication interface **68** is typically a network card. In this system, the client communication interface **68** allows the gaming client **90** to communicate over the LAN **70** and the WAN **30** with the gaming server **80**. In use, the client communication interface **68** enables the gaming client **90** to send requests to the gaming server **80** during game play in order for the game outcome receiver **630** to receive the game outcomes generated by the gaming server **80**.

[**0092**] FIG. 3 is a block diagram of the functional components of the gaming server **80**. The gaming server **80** is provided with a server memory **81** and a server processor **83** arranged to implement a set of modules based on program code and data stored in the server memory **81**. As with the client processor, a person skilled in the art will appreciate that the modules of the server processor **83** need not be implemented using a processor or be based on program code and data stored in a memory and that one or more of the modules could alternatively be implemented by a dedicated circuit. Persons skilled in the art will also appreciate that the server processor **83** may implement additional modules not illustrated in FIG. 3. For example, in another embodiment, the server processor may implement a licensing monitor for monitoring use of licenses relating to particular games.

[**0093**] Besides the server memory **81** and the server processor **83**, the gaming server **80** is also provided with a server communication interface **85** that enables the gaming server **80** to communicate with the plurality of gaming clients **90A**, **90B**, **90C** and to communicate with the site controller **50**.

[**0094**] The server memory **81** includes game data **812** and a server cashbox database **814**. The modules implemented by the server processor **83** include a Random Number Generator (RNG) **832**, a game outcome generator **838**, a status receiver **834** and a cashbox generator **836**.

[**0095**] The RNG **832** is arranged to generate random numbers for use by the server processor **83**. Persons skilled in the art will appreciate that the reference to random numbers includes pseudo-random numbers.

[**0096**] The game outcome generator **838** is arranged to generate game outcomes for each of the plurality of gaming clients **90A**, **90B**, **90C** based on the game data **812** stored in the server memory **81** and the random numbers generated by the RNG **832**. In use, the game outcome generator **838** generates game outcomes for the game being played at a gaming client **90** upon receiving a request from the gaming client **90**. Persons skilled in the art will appreciate that the game outcomes generated for a gaming client **90** may be different to the game outcomes generated for another gaming client, and that the game outcome generator **838** may generate game outcomes for the gaming clients **90A**, **90B**, **90C** in parallel or sequentially.

[**0097**] The status receiver **834** is arranged to receive status information from each of the gaming clients **90A**, **90B**, **90C** using the server communication interface **85**. In use, the status information generated by the status generator **650** of a gaming client **90** is received by the status receiver **834** whenever there is a change in status at the gaming client **90**. For example, the status receiver **834** receives status information indicating that a new game has started at a gaming client **90** when a new game starts at the gaming client **90**.

[**0098**] The cashbox generator **836** is adapted to generate cashbox data of each of the gaming clients **90A**, **90B**, **90C** based on the status information received from the gaming clients **90A**, **90B**, **90C**. For example, upon receiving from the status receiver **834** of a gaming client **90** that cash has been deposited at the gaming client **90**, the cashbox generator **836** generates cashbox data indicating that a certain amount of cash has been deposited at the gaming client **90**.

[**0099**] The cashbox data generated by the cashbox generator **836** is stored in the server cashbox database **814**. It is envisaged that the cashbox data of each of the gaming clients **90A**, **90B**, **90C** is stored in the cashbox database **814** such that it is associated with the gaming client **90**. It is envisaged that, in an embodiment where the cashbox generator **836** generates cashbox data for a plurality of sites, the cashbox data of each gaming client **90** is stored in the cashbox database **814** such that the cashbox data is associated with the gaming client **90** and also with the site in which the gaming client **90** is located. In this embodiment, the cashbox data of each gaming client **90** is stored in the server cashbox database **814**, and the server cashbox database **814** is part of the gaming server **80**. However, a person skilled in the art will appreciate that, in an alternative embodiment, the server cashbox database **814** may be stored on a stand alone device separate from the gaming server **80**.

[**0100**] FIG. 4 is a block diagram of the functional components of the site controller **50**. The site controller **50** is provided with a site processor **53** and a site memory **51** including

a site cashbox database 512. In addition, the site controller 50 also includes a site communication interface 55 for enabling communications between the site controller 50, the gaming clients 90A, 90B, 90C, and the gaming server 80.

[0101] The site processor 53 is arranged to implement a cashbox receiver 532 based on program code stored in the site memory 512. The cashbox receiver 532 is arranged to receive cashbox data of one or more of the plurality of gaming clients 90A, 90B, 90C from the gaming server 80 via the site communication interface 55, and to store the received cashbox data in the site cashbox database 512. Persons skilled in the art will appreciate that the site cashbox database 512 may be part of the site controller 50 or may be a stand alone device that is separate from the site controller 50. In use, the site controller 50 receives cashbox data of one or more of the plurality of gaming clients 90A, 90B, 90C from the gaming server 80, and stores the cashbox data in the site cashbox database 512, thereby allowing a user access to the cashbox data of all of the gaming clients 90A, 90B, 90C at a centralized point at the first site. Thus, in this embodiment, cashbox information can be provided at the venue without involvement of the gaming clients 90A, 90B, 90C. Indeed, the gaming clients 90A, 90B, 90C are not “aware” of the existence of the site controller and do not need to be connected to it.

[0102] FIG. 5 is a flow chart of a gaming method that generates and stores cashbox data of gaming clients at a gaming server located at a first site, and that communicates the cashbox data of each gaming client from the gaming server to a site controller located at a second site remote from the first site.

[0103] At step 910, a player initiates a new game at one of the plurality of gaming clients 90A, 90B, 90C using the game play device 56 and the credit mechanism 52 of the client interface 50. At step 920, in response to the initiation of the new game, the status generator 62 of the client processor 62 of the gaming client 90 generates status information indicating that a new game has initiated at the gaming client 90. The client communication interface 68 of the gaming client 90 then communicates the status information generated by the status generator 62 to the gaming server 80 via the LAN 70 and the WAN 30 at step 930. At step 940, the status receiver 834 of the gaming server 80 receives the status information via the server communication interface 85 and the cashbox generator 836 of the gaming server 80 generates cashbox data of the gaming client 90 based on the received status information. At step 950, the generated cashbox data is stored in the server cashbox database 814. At step 960, the cashbox data stored in the server cashbox database 814 is then communicated by the server communication interface 85 to the site controller 50 via the WAN 30 and the LAN 70. Subsequently, the cashbox receiver 532 of the site controller 50 then receives the cashbox data via the site communication interface 55, and the cashbox data received by the cashbox receiver 532 of the site controller 50 is then stored in the site cashbox database 512 of the site memory 51.

[0104] In the above gaming system, the operational data of each gaming client 90 generated and stored in the gaming server 80 and communicated from the gaming server 80 to the site 50 controller is cashbox data of the gaming client 90. However, it is envisaged that the operational data may additionally include or alternatively be some other kind of operational data of each gaming client 90. For example, the operational data may include or be the status information of each gaming client 90, wagering information of each gaming client

90, payout information of each gaming client 90, player tracking information of each gaming client 90, game information of each gaming client 90, session information of each gaming client 90 etc.

[0105] Also, in the above gaming system, cashbox data of the gaming clients 90A, 90B, 90C are generated at the gaming server 80 and subsequently communicated from the gaming server 80 to the site controller 50. In an alternative embodiment, the gaming clients are configured to retrieve identification data of a site controller from the gaming server (e.g. at start up) and communicate directly with the site controller based on the identification data of the site controller received from the gaming server. It is envisaged that there is typically more than one site controller in this alternative embodiment such that a gaming client cannot by itself determine the identity of the site controller. FIGS. 6 and 7 illustrate respectively the functional components of a gaming client 900 and a gaming server 800 of this alternative embodiment.

[0106] Referring to FIG. 6, the gaming client 900 includes a client interface 500 and a client controller 600 including a client communication interface 680, a client processor 620 and a client memory 640.

[0107] The client processor 620 is arranged to implement a cashbox generator 625 and a site identification receiver 623 based on the program code stored in the client memory 640.

[0108] The cashbox generator 625 is arranged to generate cashbox data in response to a player’s operation of the credit mechanism 520 and the game play device 560. For example, the cashbox generator 625 is arranged to generate cashbox information in response to the player depositing cash for initiating a new game at the gaming client 90 using the credit mechanism 520.

[0109] The site identification receiver 623 is arranged to receive identification data of the site controller 70 from the gaming server 800.

[0110] In use, when a player deposits cash using the credit mechanism 520 for initiating a new game at the gaming client 900, the gaming client 900 sends a request to the gaming server 800 for identification data of a site controller. In response, the gaming server 800 communicates the identification data of a site controller to the gaming client 900. Upon the site identification receiver 623 receiving the identification data of a site controller from the gaming server 800, the gaming client 900 communicates the cashbox data generated by the cashbox generator 625 directly to the site controller based on the identification data of the site controller received from the gaming server 800.

[0111] Referring to FIG. 7, the gaming server 800 includes a server processor 830, a server memory 810 and a server communication interface 850.

[0112] In addition, the server memory 810 is provided with a site identification database 818 arranged to store identification data of one or more site controllers. In use, the gaming server 800 communicates the identification data of a site controller in response to a request by a gaming client.

[0113] FIG. 8 depicts an example flow diagram representative of processes that may be implemented using, for example, computer readable instructions that may be used to facilitate game play. The example processes of FIG. 8 may be performed using a processor, a controller and/or any other suitable processing device. For example, the example processes of FIG. 8 may be implemented using coded instructions (e.g., computer readable instructions) stored on a tangible computer readable medium such as a flash memory, a

read-only memory (ROM), and/or a random-access memory (RAM). As used herein, the term tangible computer readable medium is expressly defined to include any type of computer readable storage and to exclude propagating signals. Additionally or alternatively, the example processes of FIG. 8 may be implemented using coded instructions (e.g., computer readable instructions) stored on a non-transitory computer readable medium such as a flash memory, a read-only memory (ROM), a random-access memory (RAM), a cache, or any other storage media in which information is stored for any duration (e.g., for extended time periods, permanently, brief instances, for temporarily buffering, and/or for caching of the information). As used herein, the term non-transitory computer readable medium is expressly defined to include any type of computer readable medium and to exclude propagating signals.

[0114] Alternatively, some or all of the example processes of FIG. 8 may be implemented using any combination(s) of application specific integrated circuit(s) (ASIC(s)), programmable logic device(s) (PLD(s)), field programmable logic device(s) (FPLD(s)), discrete logic, hardware, firmware, etc. Also, some or all of the example processes of FIG. 8 may be implemented manually or as any combination(s) of any of the foregoing techniques, for example, any combination of firmware, software, discrete logic and/or hardware. Further, although the example processes of FIG. 8 are described with reference to the flow diagram of FIG. 8, other methods of implementing the processes of FIG. 8 may be employed. For example, the order of execution of the blocks may be changed, and/or some of the blocks described may be changed, eliminated, sub-divided, or combined. Additionally, any or all of the example processes of FIG. 8 may be performed sequentially and/or in parallel by, for example, separate processing threads, processors, devices, discrete logic, circuits, etc.

[0115] FIG. 8 is a flow chart of a gaming method according to the alternative embodiment. At block 110, a player initiates a new game at a gaming client 800. At block 120, the cashbox generator 625 of the gaming client 800 generates cashbox data in response to the player depositing cash using the credit mechanism 520. At block 130, the gaming client 900 requests the gaming server for identification data of a site controller. At block 140, the gaming server 800 communicates the identification data of a site controller to the gaming client 900 in response to the request from the gaming client 900. At block 150, the gaming client 900 sends the cashbox data generated by the cashbox generator 625 to the site controller based on the identification data received from the gaming server 800. At block 160, a user retrieves the cashbox data stored in the site cashbox database of the site controller.

[0116] Various other modifications will be apparent to person skilled in the art. In particular features of the above embodiments and examples can be employed to form further embodiments.

[0117] It is to be understood that, if any prior art publication is referred to herein, such reference does not constitute an admission that the publication forms a part of the common general knowledge in the art, in Australia or any other country.

[0118] In the claims which follow and in the preceding description of the invention, except where the context requires otherwise due to express language or necessary implication, the word “comprise” or variations such as “comprises” or “comprising” is used in an inclusive sense, i.e. to

specify the presence of the stated features but not to preclude the presence or addition of further features in various embodiments of the invention.

1. A gaming system, comprising:

- a plurality of gaming clients located at a first site;
- a site controller located at the first site; and
- a gaming server adapted to generate game outcomes for the gaming clients, the gaming server being located at a second site remote from the first site and in communication with the gaming clients and the site controller over a network, the gaming server comprising:
 - an operational database adapted to store operational data of each gaming client; and
 - a communication interface arranged to communicate the operational data of each gaming client to the site controller.

2. A gaming system as claimed in claim 1, wherein the gaming server comprises a status receiver arranged to receive status information of each gaming client.

3. A gaming system as claimed in claim 2, wherein the operational data comprises cashbox data of each gaming client, the operational database is a cashbox database adapted to store the cashbox data of each gaming client, and the gaming server comprises a cashbox generator arranged to generate the cashbox data of each gaming client based on the status information of the gaming client.

4. A gaming system as claimed in claim 1, wherein the gaming server comprises an outcome generator arranged to generate the game outcomes for the gaming clients.

5. A gaming system as claimed in claim 1, wherein the network is a wide area network.

6. A gaming system as claimed in claim 1, wherein the status information of each gaming client comprises depositing of cash or emptying of cashbox.

7. A gaming system as claimed in claim 1, wherein the status information of each gaming client comprises one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

8. A gaming system as claimed in claim 1, wherein the gaming server communicates with the gaming clients and the site controller via one or more secure channels.

9. A gaming system as claimed in claim 1, wherein the gaming server is in data communication with gaming clients at a plurality of sites, and the gaming server stores operational data in the operational database such that the operational data is associated with a specific site.

10. A gaming method, comprising:

- storing operational data of a plurality of gaming clients at a gaming server adapted to generate game outcomes for the gaming clients, the gaming clients being located at a first site, the gaming server being located at a second site remote from the first site; and
- communicating the operational data of each gaming client from the gaming server to a site controller located at the first site.

11. A gaming method as claimed in claim 10, further comprising receiving status information of each gaming client from the gaming client at the gaming server via a network.

12. A gaming method as claimed in claim 11, wherein the operational data comprises cashbox data of each gaming client, and further comprising generating the cashbox data of each gaming client at the gaming server based on the status information of the gaming client.

13. A gaming method as claimed in claim **10**, further comprising communicating the game outcome for each gaming client from the gaming server to the gaming client via a network.

14. A gaming method as claimed in claim **11**, wherein the network is a wide area network.

15. A gaming method as claimed in claim **10**, wherein the status information of each gaming client comprises depositing of cash or emptying of cashbox.

16. A gaming method as claimed in claim **10**, wherein the status information of each gaming client comprises one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

17. A gaming method as claimed in claim **10**, wherein the communication between the gaming server and the site controller is via a secure channel.

18. A gaming method as claimed in claim **10**, further comprising storing at the gaming server operational data of a further plurality of gaming clients located in a third site remote from the first and second sites, and wherein operational data is stored in the operational database such that the operational data is associated with a specific site.

19. A gaming server to generate game outcomes for a plurality of gaming clients located at a first site, the gaming server being located at a second site remote from the first site, the gaming server comprising:

- an operational database adapted to store operational data of each gaming client; and
- a communication interface arranged to communicate the operational data of each gaming client to a site controller located at the first site.

20. A gaming server as claimed in claim **19**, wherein the operational data comprises cashbox data of each gaming client, and the operational database is a cashbox database adapted to store the cashbox data of each gaming client.

21. A gaming server as claimed in claim **19**, further comprising:

- a status receiver arranged to receive status information of each gaming client; and
- a cashbox generator arranged to generate the cashbox data of each gaming client based on the status information of the gaming client.

22. A gaming server as claimed in claim **19**, wherein the status information of each gaming client comprises depositing of cash or emptying of cashbox.

23. A gaming server as claimed in claim **19**, wherein the status information of each gaming client comprises one of the group including: starting of game; ending of game; starting of service session; ending of service session; starting of player session; and ending of player session.

24. A gaming server as claimed in claim **19**, further comprising an outcome generator arranged to generate the game outcomes for the gaming clients.

25. A gaming server as claimed in claim **19**, wherein the gaming server is in communication with the gaming clients and the site controller over a network.

26. A gaming server as claimed in claim **25**, wherein the network is a wide area network.

27. A gaming server as claimed in claim **19**, wherein the communication between the gaming server and the site controller is via a secure channel.

28. A gaming server as claimed in claim **19**, wherein the operational database is adapted to store operational data of a

plurality of gaming clients located at a plurality of sites, and wherein operational data is stored in the operational database such that the operational data is associated with a specific site.

29. A site controller located at a first site, the site controller being in communication with a gaming server adapted to generate game outcomes for a plurality of gaming clients located at the first site, the gaming server being located at a second site remote from the first site and comprising an operational database adapted to store operational data of each gaming client, the site controller comprising a site receiver arranged to receive the operational data of each gaming client from the gaming server.

30. A site controller as claimed in claim **29**, wherein the operational data comprises cashbox data of each gaming client, the operational database is a cashbox database adapted to store the cashbox data of each gaming client, and the site receiver is a cashbox receiver arranged to receive the cashbox data of each gaming client from the server.

31. A site controller as claimed in claim **29**, wherein the site controller receives the operational data of each gaming client from the gaming server over a network.

32. A site controller as claimed in claim **31**, wherein the network is a wide area network.

33. A site controller as claimed in claim **29**, wherein the site controller receives the operational data of each gaming client from the gaming server via a secure channel.

34. A site controller as claimed in claim **29**, wherein the operational database is adapted to store operational data of a plurality of gaming clients located in a plurality of sites and wherein operational data is stored in the operational database such that the operational data is associated with a specific site.

35. A gaming system comprising:

- a plurality of gaming clients located at a first site;
- a site controller; and

a gaming server adapted to generate game outcomes for the gaming clients, the gaming server being located at a second site remote from the first site and comprising a site database comprising identification data of the site controller;

wherein each gaming client is adapted to:

- receive the identification data of the site controller from the gaming server; and
- communicate operational data to the site controller based on the identification data received from the gaming server.

36. A gaming system as claimed in claim **35**, wherein the operational data comprises cashbox data of each gaming client.

37. A gaming system as claimed in claim **35**, wherein the gaming server comprises an outcome generator arranged to generate the game outcomes for the gaming clients.

38. A gaming system as claimed in claim **35**, wherein the gaming server communicates with the gaming clients and the site controller via one or more secure channels.

39. A gaming system as claimed in claim **35**, wherein the gaming server is in data communication with gaming clients at a plurality of sites, and wherein the site database comprises identification data of a plurality of site controllers.

40. A tangible computer readable storage medium comprising computer program code, which when executed implements a gaming method, comprising:

storing operational data of a plurality of gaming clients at a gaming server adapted to generate game outcomes for the gaming clients, the gaming clients being located at a first site, the gaming server being located at a second site remote from the first site; and

communicating the operational data of each gaming client from the gaming server to a site controller located at the first site.

* * * * *