

What is claimed is:

- 5 1. A method for connecting and operating a closed circuit e-commerce entity comprising at least one shopping terminal, at least one provider and at least one entity center, said entity center controls and manages said closed circuit operation with at least one central server supervising the communications including updates and transactions between a provider server and a building server via a network;
- 10 said shopping terminal including a touch screen, a CPU and a second memory is connected with said building server via an interface including a CPU and a first memory and via internal communication lines of said building for interfacing templated protocols covering products, itemized services, display pages, uploads and downloads between said building server and said shopping terminal via said interface including the communication of service scheduling and completed orders
- 15 between said building server and said provider server via said network;
- 20 said templated protocols including at least one of a management programs providing for a template organized touch portion of a display selected from a group comprising select pages, blocks, variation blocks, icons, dialog boxes and combinations thereof
- 25 onto said touch screen for enabling the selection by touch of at least one of services and products including a delivery and

payment terms stored in files of said first memory and selectively updated into said second memory in compliance with one of a dweller selected choice and a basic embedded program, said method comprising the steps of:

- 5 a. updating said second memory for maintaining said select pages, blocks and icons updated with products and services;
- b. recalling said select pages to complete an order for one of a scheduled service and shopping of at least one product including the delivery and payment;
- 10 c. propagating at least one protocol comprising a completed order to said interface via said internal communication lines and an interfaced data of said completed order to said building server;
- d. communicating said completed order data between said
15 building server and said provider server via said network supervised by said central server.

2. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said provider server,
20 said building server and said interface are programs to propagate a returned confirmations, dialog boxes, service scheduling and execution of propagated orders and said management program stored in said second memory is adapted to receive returned protocols for processing, recording and
25 displaying executed transactions, said method comprising the further steps of:

e. executing the delivery and one of collecting a payment and a credit in compliance with the completed order;

f. communicating data pertaining the execution of said order between said provider server and said building server via said
5 network supervised by said central server; and

g. interfacing and propagating an interfaced protocol pertaining the execution of the order via said internal communication lines to said shopping terminal.

10 3. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said at least one provider is a provider for one of services and products from within a location selected from a group comprising an embedded, a local, a ward, a town, a city, a state, a country, a global
15 and combinations thereof;

Said delivery is selected to be made within a time selected from a group comprising, n minutes, one hour, more than one hour within today, today, next day within a given time limit, next day, a day within this week, this week, a day within next
20 week, next week, a day within next-next week, next-next week, a day within the third week from today, a third week from today, a day within the fourth week from today, a fourth week from today, any day after said fourth week, any week after said fourth week and combinations thereof;

25 said payment is made via one of COD and a transfer via a financial facility selected from a group comprising credit cards, clearings, billings and combinations thereof; and

said delivery is made to one of direct to the dwellers residence and to at least one delivery locker selected from a group comprising Small, Medium, Large, Fridge, Freeze and combinations thereof accessible within the residence building
5 common area.

4. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said shopping terminal is selected from a group comprising a television interphone
10 monitor, a dedicated shopping terminal, a television set, a cable television set, an interactive television set, a shopping adaptor box, a set-top box, a cable box, an antenna box, a satellite adaptor box and combinations thereof;
said network is selected from a group comprising a private
15 network, a dedicated network, a public network, the internet and combinations thereof; and
said internal communication line is selected from a group comprising an analog communication line, a digital communication line, a cable television line, a television
20 antenna line, an optical fiber line for optical communications and combinations thereof.

5. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said at least one
25 protocol comprising said completed order propagated via said internal communication line identifies the order details

including said at least one of product categories and service categories, at least one of the products group and the service class, at least one of the product including product variations and said service including the service cost, at least one
5 provider, the payment method for at least one of product and service, at least one of the delivery time and the service schedule, an order with confirmation request, an order without confirmation request and combinations thereof.

10 6. The method for connecting and operating a closed circuit e-commerce according to claim 5, wherein said protocol comprising at least seven Bytes is assembled by five single Byte codes comprising the header codes, the nature of command codes, one of a product including the product variations and a
15 service schedule including cost codes, one of a delivery/ pay and service pay basis codes, a trailer codes, and two Byte link codes for linking with at least one of products and services, wherein a combination of three Byte codes comprising said link codes and said one of product including variations and service
20 schedule including the service cost codes identify said one of product categories and service categories, one of product groups and service class, said provider, at least one of product including variations and said service including the service schedule and cost.

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7. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein one of said upload and

download propagated between said building server and said shopping terminal via said interface is comprising n Bytes of data of said one of download and upload and a protocol of at least eight Byte codes combining six single Byte codes comprising the header codes, the nature of command codes, the protocol length codes, one of a product including the product variations and a service schedule including cost codes, one of link to memory codes, a trailer codes and a two Byte link codes;

10 said two Byte link codes for linking with at least one of product categories and service categories in combination with said single Byte codes of said one of a product including the product variations and a service schedule including the cost identify at least one of upload and download target to be at
15 least one selected from a group comprising a provider, one of product categories and service categories, one of product groups and service class, one of products including variations and said service schedule and cost, said link to memory codes identities the target memory file and wherein said length codes
20 identify the total number of Bytes being propagated in said upload and download.

8. The method for connecting and operating a closed circuit e-commerce according to claim 7, wherein said n Bytes of said
25 upload data is a data selected from a group comprising management data, operation data, control data, products data, services data, prices data, promotion data, specials data,

delivery data, payment data, products group data, services
class data, product variations data, services scheduling data,
product categories data, service categories data, product
providers data, service providers data, product pictures data,
5 product illustration data, services pictures data, services
illustration data, providers logo data, provider names data,
select pages data, select/operate icons data, locker
availability data, credit card providers data, clearing
providers data, billing providers data, e-concierge providers
10 data and combinations thereof pertaining to at least one of
identified products and services or the nature of command
included in said eight Byte codes.

9. The method for connecting and operating a closed circuit
15 e-commerce according to claim 1, wherein said updated select
pages for one of products group and services class include a
block for recalling one of a product page and a service page
displaying a programmed promotion selected from a group
comprising special deals, discounts, promotion of one of
20 products and services, advertising of one of products and
services, offering free test samples of one of products and
services and combinations thereof.

10. The method for connecting and operating a closed circuit
25 e-commerce according to claim 1, wherein said completed order
for at least one product propagated to said interface is a
combination order selected from a group comprising a single

product to a single provider order, multi products to a single provider order and multi products to multi providers order.

11. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said interface is a circuit integrated into one of an integrated shopping terminal and an integrated building server and said internal communication lines are internal connection lines within one of said integrated shopping terminal and said integrated building server for providing one of a combination selected from a group comprising direct connection between said integrated shopping terminal and said building server, direct connection between said shopping terminal and said integrated building server, integrating said shopping terminal with said integrated building server and integrating said integrated shopping terminal with said building server.

12. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said shopping terminal further includes a remote control receiver for receiving at least one of wired and wireless remote signals by remote control units selected from a group comprising a wireless RF remote control, a wireless IR remote control, a wired bus line remote control, a fiber optic linked remote control, a targeting pointing laser remote control and combinations thereof.

13. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said selection of at least one of services and products via said template organized display is enabled by a movement detection in front of said touch screen.

14. The method for connecting and operating a closed circuit e-commerce according to claim 2, wherein a wireless hand held delivery tool of a delivery man enables to acknowledge the execution of a completed order by recalling a templated execution icon onto said touch screen for propagating an execution protocol by a dweller touching said execution icon at the time of delivery.

15. The method for connecting and operating a closed circuit e-commerce according to claim 3, wherein said completed order is communicated to said financial facility for crediting said provider, debiting said dweller account and propagating a payment confirmation to said provider via said network supervised by said central server without disclosing further details of said dweller beyond the details in said completed order.

16. A bidirectional communication protocol structure for operating a shopping terminal in a closed circuit e-commerce, said protocol composed of at least six individual Byte codes comprising a header, a sub-header, a category link, an item, a

process and a trailer, said header identifies the received signal source selected from a group comprising an optical signal, an IR signal, an RF signal and electrical signal, the sub-header code identifies the nature of the command, the category link code identifies a category, a provider and one of a group and a class, the item code identifies one of a service and a product including variations pertaining to said item linked to the identified said category, said provider and to one of a group and a class, the process identifies one of a delivery details and service visit schedule including one of a payment method and a service cost, and the checksum trailer concludes said protocol.

17. A bidirectional communication protocol structure according to claim 16, wherein said category link comprising at least two Byte codes for expanding the number of at least one of categories, providers and groups or classes.

18. A bidirectional communication protocol structure according to claim 17, wherein said sub-header code identifies the protocol to be for single product shopping said category link code is a shopping category link code, said item code is a product code and said process code is a delivery/pay code, and wherein said category link codes identify the shopping category, the e-shop provider and the product group, said product code identifies the product within said product group and said

delivery/pay codes identify the delivery particulars and the payment method.

19. A bidirectional communication protocol structure
5 according to claim 17, wherein said sub-header code identifies the protocol to be for services, said category link code is a service category link code, said item code is an itemized service code and said process code is a pay/basis for service, and wherein said category link codes identify a service
10 category, a service provider and a service class, said service code identifies an itemized service and the service schedule, and said pay/basis code identifies the payment method and the service cost particulars.

15 20. A bidirectional communication protocol structure according to claim 18, wherein said sub-header code identifies the protocol to be for multi product shopping by repeating a product I.D code comprising a product category link code and a product code for each product, and wherein a length code
20 identifies the total Byte count of said protocol for multi products shopping.

21. A bidirectional communication protocol structure according to claim 19, wherein said sub-header code identifies
25 the protocol to be for multi services shopping by repeating a service I.D code comprising a service category link code and an itemized service code for identifying the particulars of a

service, and wherein a length code identifies the total Byte count of said protocol for multi products shopping.

22. A bidirectional communication protocol structure
5 according to claim 20, wherein said sub-header identifies the protocol to be for uploading data to a memory of said shopping terminal, said process code is a link to memory code for linking to a given file of said memory and wherein said length code identifies one of the Byte count of said protocol
10 including the uploading data stream being propagated and at least one Byte codes for identifying the n Bytes count of the uploading stream is added to said protocol.

23. A bidirectional communication protocol structure
15 according to claim 20, wherein said sub-header identifies the protocol to be for updating data of a memory of said shopping terminal, said process code is a link to memory code for linking to a given file of said memory and wherein said length code identifies one of the Byte count of said protocol
20 including the updating data stream being propagated and at least one Byte codes for identifying the n Bytes count of the updating stream is added to said protocol.

24. A bidirectional communication protocol structure
25 according to claim 21, wherein said sub-header identifies the protocol to be for downloading data from a given file of a memory of said shopping terminal, said process code is a link

to memory code for identifying a given file of said memory
being downloaded and wherein said length code identifies one of
the Bytes count of said protocol including the downloading data
stream being propagated and at least one Byte codes for
5 identifying the n Bytes count of the updating stream is added
to said protocol.

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What is claimed is:

- 5 1. A method for connecting and operating a closed circuit e-commerce entity comprising at least one shopping terminal, at least one provider and at least one entity center, said entity center controls and manages said closed circuit operation with at least one central server supervising the communications
10 including updates and transactions between a provider server and a building server via a network;
said shopping terminal including a touch screen, a CPU and a second memory is connected with said building server via an interface including a CPU and a first memory and via internal
15 communication lines of building for interfacing templated protocols covering products, itemized services, display pages, uploads and downloads between said building server and said shopping terminal via said interface including the communication of service scheduling and completed orders
20 between said building server and said provider server via said network;
said templated protocols including at least one management program providing for a template organized touch portion of a display selected from a group comprising select pages, blocks, variation blocks, icons, dialog boxes and combinations thereof
25 onto said touch screen for enabling the selection by touch of at least one of services and products including a delivery and

payment terms stored in files of said first memory and selectively updated into said second memory in compliance with one of a dweller selected choice and a basic embedded program, said method comprising the steps of:

- 5 a. updating said second memory for maintaining said select pages, blocks and icons updated with products and services;
- b. recalling said select pages to complete an order for one of a scheduled service and shopping of at least one product including the delivery and payment;
- 10 c. propagating at least one protocol comprising a completed order to said interface via said internal communication lines and an interfaced data of said completed order to said building server;
- d. communicating said completed order data between said
15 building server and said provider server via said network supervised by said central server.

2. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said provider server,
20 said building server and said interface are programs to propagate returned confirmations, dialog boxes, service scheduling and execution of propagated orders and said management program stored in said second memory is adapted to receive returned protocols for processing, recording and
25 displaying executed transactions, said method comprising the further steps of:

e. executing the delivery and one of collecting a payment and a credit in compliance with the completed order;

f. communicating data pertaining the execution of said order between said provider server and said building server via said
5 network supervised by said central server; and

g. interfacing and propagating an interfaced protocol pertaining the execution of the order via said internal communication lines to said shopping terminal.

10 3. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said at least one provider is a provider for one of services and products from within a location selected from a group comprising an embedded, a local, a ward, a town, a city, a state, a country, a global
15 and combinations thereof;

Said delivery is selected to be made within a time selected from a group comprising, n minutes, one hour, more than one hour within today, today, next day within a given time limit, next day, a day within this week, this week, a day within next
20 week, next week, a day within next-next week, next-next week, a day within the third week from today, a third week from today, a day within the fourth week from today, a fourth week from today, any day after said fourth week, any week after said fourth week and combinations thereof;

25 said payment is made via one of COD and a transfer via a financial facility selected from a group comprising credit cards, clearings, billings and combinations thereof; and

said delivery is made to one of direct to the dweller's residence and to at least one delivery locker selected from a group comprising Small, Medium, Large, Fridge, Freeze and combinations thereof accessible within the residence building
5 common area.

4. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said shopping terminal is selected from a group comprising a television interphone
10 monitor, a dedicated shopping terminal, a television set, a cable television set, an interactive television set, a shopping adaptor box, a set-top box, a cable box, an antenna box, a satellite adaptor box and combinations thereof;
said network is selected from a group comprising a private
15 network, a dedicated network, a public network, the internet and combinations thereof; and
said internal communication line is selected from a group comprising an analog communication line, a digital communication line, a cable television line, a television
20 antenna line, an optical fiber line for optical communications and combinations thereof.

5. The method for connecting and operating a closed circuit
25 e-commerce according to claim 1, wherein said at least one protocol comprising said completed order propagated via said internal communication line identifies the order details

including at least one of product categories and service categories, at least one of the products group and the service class, at least one of the product including product variations and said service including the service cost, at least one
5 provider, the payment method for at least one of product and service, at least one of the delivery time and the service schedule, an order with confirmation request, an order without confirmation request and combinations thereof.

10 6. The method for connecting and operating a closed circuit e-commerce according to claim 5, wherein said protocol comprising at least seven Bytes is assembled by five single Byte codes comprising the header codes, the nature of command codes, one of a product including the product variations and a
15 service schedule including cost codes, one of a delivery/ pay and service pay basis codes, a trailer codes, and two Byte link codes for linking with at least one of products and services, wherein a combination of three Byte codes comprising said link codes and said one of product including variations and service
20 schedule including the service cost codes identify said one of product categories and service categories, one of product groups and service class, said provider, at least one of product including variations and said service including the service schedule and cost.

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7. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein one of said upload and

download propagated between said building server and said shopping terminal via said interface comprises n Bytes of data of said one of download and upload and a protocol of at least eight Byte codes combining six single Byte codes comprising the header codes, the nature of command codes, the protocol length codes, one of a product including the product variations and a service schedule including cost codes, one of link to memory codes, a trailer codes and a two Byte link codes;

10 said two Byte link codes for linking with at least one of product categories and service categories in combination with said single Byte codes of said one of a product including the product variations and a service schedule including the cost identify at least one of upload and download target to be at

15 least one selected from a group comprising a provider, one of product categories and service categories, one of product groups and service class, one of products including variations and said service schedule and cost, said link to memory codes identities the target memory file and wherein said length codes

20 identify the total number of Bytes being propagated in said upload and download.

8. The method for connecting and operating a closed circuit e-commerce according to claim 7, wherein said n Bytes of

25 ,upload data is a data selected from a group comprising management data, operation data, control data, products data, services data, prices data, promotion data, specials data,

delivery data, payment data, products group data, services
class data, product variations data, services scheduling data,
product categories data, service categories data, product
providers data, service providers data, product pictures data,
5 product illustration data, services pictures data, services
illustration data, providers logo data, provider names data,
select pages data, select/operate icons data, locker
availability data, credit card providers data, clearing
providers data, billing providers data, e-concierge providers
10 data and combinations thereof pertaining to at least one of
identified products and services or the nature of command
included in said eight Byte codes.

9. The method for connecting and operating a closed circuit
15 e-commerce according to claim 1, wherein said updated select
pages for one of products group and services class include a
block for recalling one of a product page and a service page
displaying a programmed promotion selected from a group
comprising special deals, discounts, promotion of one of
20 products and services, advertising of one of products and
services, offering free test samples of one of products and
services and combinations thereof.

10. The method for connecting and operating a closed circuit
25 e-commerce according to claim 1, wherein said completed order
for at least one product propagated to said interface is a
combination order selected from a group comprising a single

product to a single provider order, multi products to a single provider order and multi products to multi providers order.

11. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said interface is a circuit integrated into one of an integrated shopping terminal and an integrated building server and said internal communication lines are internal connection lines within one of said integrated shopping terminal and said integrated building server for providing one of a combination selected from a group comprising direct connection between said integrated shopping terminal and said building server, direct connection between said shopping terminal and said integrated building server, integrating said shopping terminal with said integrated building server and integrating said integrated shopping terminal with said building server.

12. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said shopping terminal further includes a remote control receiver for receiving at least one of wired and wireless remote signals by remote control units selected from a group comprising a wireless RF remote control, a wireless IR remote control, a wired bus line remote control, a fiber optic linked remote control, a targeting pointing laser remote control and combinations thereof.

13. The method for connecting and operating a closed circuit e-commerce according to claim 1, wherein said selection of at least one of services and products via said template organized display is enabled by a movement detection in front of said touch screen.

14. The method for connecting and operating a closed circuit e-commerce according to claim 2, wherein a wireless hand held delivery tool of a delivery man enables acknowledgement of the execution of a completed order by recalling a templated execution icon onto said touch screen for propagating an execution protocol by a dweller touching said execution icon at the time of delivery.

15. The method for connecting and operating a closed circuit e-commerce according to claim 3, wherein said completed order is communicated to said financial facility for crediting said provider, debiting dweller account and propagating a payment confirmation to said provider via said network supervised by said central server without disclosing further details of said dweller beyond the details in said completed order.