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(54) INTERACTIVE INFORMATION DELIVERY TERMINAL AND METHOD OF OPERATING AN INTERACTIVE INFORMATION DELIVERY SYSTEM

INTERAKTIVES ENDGERÄT ZUR INFORMATIONSBEREITSTELLUNG UND VERFAHREN FÜR DEN BETRIEB EINES INTERAKTIVEN SYSTEMS ZUR INFORMATIONSBEREITSTELLUNG

TERMINAL INTERACTIF POUR LA LIVRAISON DE L’INFORMATION ET PROCEDE D’ACTIONNER UN SYSTEME INTERACTIF DE LA LIVRAISON DE L’INFORMATION

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Description

[0001] This invention relates to interactive computer information display systems for displaying text or other information. Such systems are coming into widespread use, through information access systems such as the "Internet" World Wide Web (WWW). Large amounts of information are available to users having access to such systems. However, in order to gain access to such systems relatively expensive hardware is required, in particular a computer and a modem, limiting the availability of the information to users who have access to such a terminal. Furthermore, the hardware is typically bulky, and is not easily portable. Mobile systems, comprising a "laptop" computer and a cellular telephone, do exist, but because of the limited bandwidth available on mobile communications, these tend to be very slow.

[0002] Customer Relationship Management (CRM) is a term used for software, systems, methodologies and capabilities that help an enterprise organise and manage customer relationships. The use of CRM systems and strategies lead to a better understanding of customer wants and needs. Used in conjunction with data warehousing, data mining, call centre systems and other intelligence applications, CRM allows enterprises to gather and access information about customer buying preferences, purchase histories, complaints and other data so as to aid the anticipation of what customers will want. Other benefits of CRM for businesses include increased customer loyalty, faster response to customer inquiries, a deeper understanding of customers, increased marketing and selling opportunities, monitoring feedback that leads to improved products and services and obtaining information that can be shared with business partners to create new propositions for customers.

[0003] Multimedia "kiosks" have been proposed for locations to which the public have access. In order to identify the user, and allow payment to be made for the service if required, facilities such as a credit card "swipe" unit are also necessary. Nevertheless, however the authentication is done, since such kiosks are available for any member of the public to use, the user has to provide user-specific information if CRM-based information is to be usable by the service provider. For security, this may require the user to have a security password or other access control process, making the use of such systems cumbersome. Some such facilities, for example that disclosed in International patent application WO02/07135, make use of a wireless connection for such authentication, for example using the "Bluetooth" standard to be discussed later, so that a suitably equipped portable device may transmit the necessary identification information to the fixed terminal, thereby permitting the holder of the portable device to operate the fixed device.

[0004] However, there is a further drawback to such systems. The fixed equipment is valuable, and its accessibility to the public makes it vulnerable to theft, vandalism, and tampering. The equipment is also not suitable for exposed locations, as it is not in general weatherproof.

[0005] International Patent application WO98/36552 discloses a system in which a mobile handset, such as a standard cellular telephone, may be used to control a fixed visual display unit, by setting up a data connection over the cellular telephone network between the cellular telephone and a server controlling the display unit. This allows a mobile user to access data over a high speed link, for display on a large screen terminal close to his current locality, whilst the terminal itself can be protected from theft, vandalism, the weather and other hazards by being located in an inaccessible, but visible, location such as behind a shop window.

[0006] However, this system requires the establishment of two separate data links, between the server and the user's mobile terminal and between the server and the fixed terminal. If any audio information is to be supplied, or any private personal data, this cannot be exchanged between the user and the fixed terminal without the use of separate links to the server, requiring greater bandwidth than that needed for a few simple control commands. It should be noted in this connection that, in this specification, the term "display" is not limited to visual displays but, unless the context demands otherwise embraces other means of conveying information such as tactile (e.g. braille, vibration alerts) and audio information. A terminal sealed behind a shop window is of course inherently unsuitable for conveying such information.

[0007] European patent application EP1030272 describes an electronic asset utilisation system comprising a stationary terminal, such as a set top box, a mobile terminal and a server for issuance of an electronic asset. The stationary terminal, the mobile terminal, and the server are connected to a communications network. After having received an order for an electronic asset, such as an electronic ticket, and has settled the order, the server sends the electronic asset to a specified terminal. Further, upon receipt of a request for service, the server performs a processing operation related to the service request and transmits the thus-requested service to a specified terminal.

[0008] The present invention proposes an alternative arrangement.

[0009] According to one embodiment of the present invention, there is provided an interactive information delivery terminal comprising an information display unit, retrieval means for generating control commands for transmission to an information store over a first communications link, for the retrieval of information therefrom, a user interface for receiving control commands over a second communications link for controlling the retrieval means, characterised by the user interface having means for recognising the presence of a user device and establishing a connection with the user device using the second communications link, the terminal further comprising means for determining the capabilities of the user device using the second communications link and for selectively transmitting the in-
An interactive display terminal according to claim 6.

Some user handsets 2 may also be capable of connection over a radio connection such as a cellular telephone link 5, and through a telephone network 8, to a computer/telephony integration unit 9 associated with the media server 7. Such a unit is described in the aforementioned International Patent specification W098/36552. Figure 1 also shows a call centre 90 associated with the computer/telephony integration unit 9.

The terminal equipment 10 consists of short-range (piconet) radio interface (13); a large colour display (14) such as a plasma screen or a projector; and a standard PC client interface (15). These relatively valuable items could be integrated behind a secure, vandal proof, weatherproof enclosure e.g. a shop window, such that the display can be seen, but not touched, and the interface 13 can communicate with the user’s interface unit 1. In use, a user may access the terminal 10 with any portable communicator device (2) having a short-range piconet radio interface (1) operating according to the same system as the piconet interface 13. The user device 2 may take the form of a personal digital assistant (PDA), a mobile phone, a devise incorporating a “Bluetooth” chip or the like, or a simple RFID (radio frequency Identification Device) “tag” having only a basic identity code transmittable over a piconet connection.

The terminal 10 is configured to communicate over a broadband link, using the Internet (6), to a media server (7) and/or to other terminals (20). The server (7) is capable of delivering many types of content and streamed multimedia to the terminals.

The main tasks of the server (7) are to serve the content, maintain state and system information for each user and client, personalise and localise content (using software agents) and allow interfaces to other specialised subsystems (e.g. a call centre). The content is essentially dynamic and can reflect specific marketing campaigns the retailer is running or events occurring within the store where the client is situated. The client devices (2) form part of the Responsive Environment: the area where the user sensing and interaction occurs.

There are many possible configurations of the Responsive Environment depending on the type of site and other factors such as cost.

The use of this system comprises three basic phases: Initiation, interaction, and closure. For initiation, one or more individuals may simply walk into a designated Responsive Environment in proximity of a public multimedia display device (14). This environment comprises one or more devices that can detect an artefact that an
individual carries with him. This artefact could be the consumer's loyalty card or mobile communicator device. Bluetooth devices each have a unique identity (MAC address). This identity can be read by the Responsive Environment and used to associate that individual's identity with a data file relating to that user and held by the server 7. By means of the short-range radio interface (1) on the user's communicator device (2), the terminal's short-range radio interface (13) detects the user's presence, and a process of user authentication is then triggered by transmitting a message to the server 7. The server 7 responds by delivering an interactive page or other multimedia to the terminal 10 offering a range of services it has available. An alert may be generated on the user's device (by means of a visual signal (e.g. a flashing light), and audio signal (e.g a distinctive ringing tone), a tactile signal (e.g. vibration of the device), or some combination of such alerts. Alternatively, or in addition the display device 14 may itself generate an alert, for example by displaying a greeting to the user. If the communicator device 2 identifies the individual user, the terminal may retrieved from information the server 7 about that user allowing the greeting to be personalised, thereby allowing the display screen 14 in the shop window to greet passers-by by name if they are carrying with suitable communicator devices 2.

[0020] When initiation is completed the interaction process begins. The individual now has access to the facilities and services available from this client. A simple user interface, which is either controlled through a personal device or a client mechanism, drives a large multimedia display. Using the portable communicator device 2 the user may control the terminal 10 (and therefore the server 7) using the short-range Bluetooth radio technology. The server 7 can provide information relevant to the user's current location because it can identify the current location of the user from the identity of the client terminal 10 through which the user is accessing the data. If a user identity code has been transmitted to the terminal 10 it may be sent to the server (7) over the Internet (6) for the purpose of personalising the content to the user. Content from the server displayed on the display device is therefore personalised, localised and context aware, but content concerning private or sensitive information can be sent directly to the individuals' communicator. A Bluetooth communicator device could therefore be used as a second display/control mechanism, on which private or secure transactions could be carried out on the communicator device. The communicator device audio channel could be used to listen to personalised information or talk to a call centre. The user could drive the main display interface using the interface on the communicator, the talk to a call centre. The user could drive the main display

[0022] There are many uses to which the invention may be put. By having a display terminal in a shop window, passers by using their mobile communicator devices could browse and purchase that shop's products and services, even outside the hours that the shop is open in the conventional sense. Since the display is in public view, any audio, personal, or private payment information should only appear on the customers' handheld device, reserving the screen for showcasing high quality broadband content.

[0023] People are hesitant to buy non-commodity high value items over the Internet impulsively - they want to test drive cars, try clothes on, taste wines and see works of art before they make a purchase. This means that retailers' physical locations become 'try out' outlets, which are visited by customers to try out the products before spending their money online with a cheaper supplier who does not have to carry the financial overhead of maintaining a showroom or holding stock for display. The invention can be used by the physical retail outlets to manage the customer's experience in the retail premises in a manner that provides a great deal of personalisation, to the benefit not only of the customer, but also of the retailer by both attracting customers into the retail premises, by obtaining information about them.

[0024] If the interaction is with a device carried by and already identified with the user, the user can be identified explicitly, the user controlling the display by interaction between the portable device and the display device. The user may do this actively, or it may be done automatically in response to proximity of the devices to each other. However, devices not identifiable with the user may also be used. For example, items in a shop may be tagged with such a device, identifying the item. The personal details of a user carrying such an item may be unknown to the retailer, but his interest in that item can be registered and used to alert customers to other items that might also interest them.

[0025] For instance, a record store employing such a system could allow its customers to listen to its products while walking around the store. Consumers could use a communicator device to gain access to a 'personal radio station' that only plays the music they are interested in. Simply by picking up a CD in a responsive environment would stream the music to the customers handset. The customers can listen to all the music they desire, as long as they remain in the store. Even if a customer doesn't buy anything on a particular visit, the retailer gets information about the tastes and preferences of that individual, allowing a greater focus in future marketing and selling opportunities.

[0026] In a clothes shop, a changing room fitted with the invention would be able to suggest other clothes that might suit the user as he or she tries an item, looking into a screen serving as an electronic mirror. A customer loyalty system attached to the retailers website could allow the retailer to upload details of other items in the user's wardrobe purchased from the same retailer, allowing the...
user to check whether an item being tried complements other items he has previously purchased but does not have with him.

[0027] At a supermarket, consumers' lifestyles could be taken in account and actively supported, for example by providing calorific and nutritional values of purchases for those on calorie controlled diets, or personalised shelf edge displays recommending particular combinations of food, wine and recipes depending on what is already in an individual's shopping basket or past shopping lists, or personalised product warnings to users with special dietary needs such as allergies.

[0028] A video rental store could offer customers personalised trailers showing the highlights or reviews of films that are of interest to them simply by holding the video cassette cover equipped with a device near a screen.

[0029] Provision of this facility may also allow useful tie-ins between businesses, for example allowing finance to be arranged for a large purchase.

[0030] Four possible interaction scenarios will be discussed. It will be appreciated that others are possible. The level of interaction facilitated by the system is dependent on what the facilities the user has available to him when he arrives at the location of the terminal 10, and in particular the capabilities of his own handset.

1. High-end Interaction.

[0031] In the first scenario the user has a PDA style communicator (2) with a display and user interface and integrated piconet short-range radio technology (1). When the user device (1,2) is in proximity of the terminal 10 the interface units 1, 13 automatically establish a piconet connection 4, causing the communicator to display a message and/or vibrate to alert the user that interaction is possible. The display 14 may also respond to the establishment of the connection by displaying a welcome message to the user.

[0032] The user may accept this invitation to interact by pressing appropriate keys on his communicator device. The terminal 10 then causes the display (14) to provide feedback to the user, denoting that an interactive session has begun. Since the communicator device has a user interface that is specific to a particular platform (e.g. Palm Computing, Microsoft Pocket PC), the piconet interfaces (1,13) negotiate a set of capabilities and identify the platform. During this negotiation phase a set of usage profiles are determined. Such profiles are defined in the Bluetooth specification and describe various capabilities of devices. For example a headset profile would indicate that the device can send/receive audio only, whilst an FTP profile indicates that the device can send/receive files. These usage profiles allow the terminal to tailor the interaction to the user, as will be described. The FTP profile is required to download the client control program for the communicator.

[0033] If this phase is successful then the communicator (2) downloads a client control program over the piconet link (4). The communicator device (2) then executes this program giving the user a full set of controls for rich interaction with the terminal display. This local user interface allows the user to exchange information with the server that is sensitive (for example personal or financial details) or otherwise not suitable for viewing on the large public display 14, for example audio information. For example, if a video file is presented on the display 14, and the communicator device supports a headset profile, the client processor 15 may use the piconet connection 4 to transmit a soundtrack associated with the video file. This is useful in situations where audio from the display cannot be heard directly (for example if it is behind a shop window).


[0034] In the second scenario the user is carrying a mobile phone style communicator (2) with a keypad and integrated piconet short-range radio technology (1). As in the previous scenario, when the user is in proximity of the terminal 10 the communicator 2 displays a message, plays an alert tone and/or vibrates to alert the user that interaction is possible, and if the user accepts this invitation to interact then the display (14) provides feedback to the user, denoting that an interactive session has begun. The user can control the on-screen menu system/cursor using the mobile phone keypad. The on screen menu indicates which keys should be pressed on the keypad of the handset 2 to access different services displayed on the screen 14 - for example press key "2" to scroll a cursor up a list, "8" to scroll down, or "5" to select the item currently identified by the cursor. Audio from the terminal could be sent to the earpiece of the communicator device using the piconet 4 (via the headset profile).

[0035] If the system is configured with a Computer/ telephony interface (CTI) unit (9) attached to the media server (7) then it is possible to have the system establish a telephone connection with the handset 2 through the telephone network 5, 8. This could be made available either to facilitate a voice channel (for voice control/access to the server 7) or to link to a call centre (90) to complete a transaction (credit card payment), to receive help or for billing purposes. Connection to the call centre could be an option on the menu list referred to above.

3. Multiple User Interaction.

[0036] It is possible for several user terminals 2 to interact with the display 14 simultaneously. This can be used for interactions in a social group, for example for booking a holiday or playing games. The Bluetooth piconet system can link up to eight devices, so seven users that are standing in proximity to the display 14 can cooperate with the terminal 10 in one session. Alternatively, the terminal 10 could detect users in a queue and deal with each one in turn, but simultaneously accessing con-
tent from the server 7 in preparation for full interactions with the next few users. If later stages of an interaction over the piconet connection do not require the use of the display 14 (for example payment details entered using the user’s handheld device 2) a subsequent member of the queue may start to be served before the interaction with the first is completed. Another application is a group gaming and gambling activity: for example all the users watching a race on the display 14, but placing individual bets using their communicators 2.

4. Low-end Interaction.

[0037] In this scenario the user has an RFID tag. Such tags are basic piconet interface units capable of transmitting an identification code but having no other communications or other user-operable capability. They are generally used merely to indicate the presence of the tag (and any device to which it is fitted), for example to prevent pilfering of goods. RFID technology has been used in the logistics and security applications for many years but it is gaining momentum as new radio frequencies are exploited [e.g. Hitachi’s 2.45GHz technology], new standards are agreed [e.g. ISO 15693] and cheap RFID tags are becoming available. They are used in applications such as security tagging in shops and libraries, for vehicle tolling, vehicle access (key fobs) and PC access. There are a number radio bands used worldwide in the UHF band [e.g. 433MHz]. Such devices may use batteries but some short range types use batteryless active tags powered by the RF field itself. They are relatively cheap, have no shelf life problems and can thus be embedded safely in artefacts, infrastructure and living things. The first available battery-less tags [TIRIS from Texas Semiconductors] used a very low frequency of 134kHz, but the more recent ISO15693 tags use a higher frequency of 13.56MHz and have more intelligence within the microchips.

[0038] When a user having such a tag is in proximity to the terminal 10 (and its short-range radio interface 13) the tag transmits its unique identity code to the terminal 10 which forwards it to the server 7. The server responds with localised and personalised information for display on the display unit 14. Typically, since the user has no means of input to the display, he/she can only view content. A typical use in a retail setting would be to use RFID tags to replace customer loyalty cards. The customer could approach a display unit to check special offers/savings and the status of his/her account. Using RFID tags would also mean that the collection of loyalty points could be done passively at the checkout, the terminal 10 identifying the account to which the points are to be credited from the RFID tag identity. By providing multiple RFID tag reading piconet interfaces 13 all serving the same client processor 15, it is possible to determine the route being taken by the user, for example to identify whether the user is approaching or leaving the area where the display 14 can be seen.

[0039] Instead of transmitting audio signals to the user’s device, it may instead be used to track the movement of the user so that a highly directional acoustic signal can be sent from a loudspeaker to the user, using the “Audio Spotlight” technology developed by the MIT Media Lab, which produces sound in a very narrow beam that can be treated similarly to a beam of light, being able to be focussed, reflected and directed as necessary. Using the invention it would be possible to ensure a relatively private ‘hotspot’ of sound that could be steered to provide the user with an unobtrusive audio feed as he moves within the area of coverage.

Claims

1. An interactive information delivery terminal (10) comprising an information display unit (14), retrieval means (15) for generating control commands for transmission to an information store (7) over a first communications link (6), for the retrieval of information therefrom, a user interface (13) for receiving control commands over a second communications link (4) for controlling the retrieval means,

characterised by the user interface (13) having means for recognising the presence of a user device (2) and establishing a connection with the user device (2) using the second communications link (4),

the terminal further comprising means for determining the capabilities of the user device (2) using the second communications link (4) and for selectively transmitting the information to the user device (2) retrieved from the information store (7) in dependence on the determined capabilities; and

the user interface (13) having means for generating an alert to indicate to a user that the connection has been established, said alert displayed on an output display unit of the user device (2).

2. A terminal (10) according to claim 1, wherein information retrieved from the information store (7) comprises information suitable for public display and not suitable for public display, the terminal (10) adapted to display the information suitable for public display on the information display unit (14) and to transmit the information not suitable for public display to the user device (2).

3. A terminal (10) according to any preceding claim wherein a signal is transmitted to the user device (2) using the second communications link (4).

4. A terminal (10) according to any preceding claim, having means for transmitting display data over the second communications link (4).

5. A terminal (10) according to any preceding claim, having means for interaction with a plurality of user
6. A method of operating an interactive information delivery terminal (10) comprising an information display unit (14) and retrieval means (15), said method comprising the steps of:

generating control commands by the retrieval means (15) for transmission to an information store (7) over a first communications link (6), for the retrieval of information therefrom, the control commands being activated in response to control commands received from a user device (2) over a second communications link (4) for controlling the retrieval means (15),

characterised in that the method further comprises the steps of recognising the presence of a user device (2) and establishing a connection with the user device (2) using the second communications link (4), determining the capabilities of the user device (2) using the second communications link (4) and for selectively transmitting to the user device (2) the information retrieved from the information store (7) in dependence on the determined capabilities;
generating at the user interface an alert to indicate that the connection has been established, wherein the alert is displayed on an output display unit of the user device (2).

7. A method according to claim 6, comprising the steps of recognising the presence of a user device (2) and establishing a connection over the second communications link (4).

8. A method according to claim 6 or 7 wherein an alert signal is transmitted to the user device using the second communications link (4).

9. A method according to any of claims 6 to 8 wherein display data is transmitted over the second communications link (4).

10. A method according to any of claims 6 to 9, wherein the terminal (14) can interact with a plurality of user devices simultaneously.

Patentansprüche

1. Interaktives Endgerät (10) für die Informationsübermittlung, umfassend eine Informationsanzeigeeinrichtung (14), eine Abfrageeinrichtung (15) für das Erstellen von Steueranweisungen über eine zweite Übertragungsstrecke (4) für das Steuern der Abfrageeinrichtung, dadurch gekennzeichnet, dass die Bedienschnittstelle (13) Einrichtungen zum Erkennen der Präsenz einer Bedienvorrichtung (2) und zum Aufbauen einer Verbindung mit der Bedienvorrichtung (2) unter Verwendung der zweiten Übertragungsstrecke (4) aufweist, und das Endgerät weiterhin Einrichtungen zum Bestimmen der Ressourcen der Bedienvorrichtung (2) unter Verwendung der zweiten Übertragungsstrecke (4) und zur selektiven Übertragung der von dem Informationsdepot (7) abgefragten Information an die Bedienvorrichtung (2) in Abhängigkeit der bestimmten Ressourcen umfasst, und die Bedienschnittstelle (13) Einrichtungen zum Erzeugen eines Hinweises aufweist, um dem Bediener anzuzeigen, dass die Verbindung aufgebaut wurde, wobei der Hinweis auf einer Ausgabeanzeigeinrichtung der Bedienvorrichtung (2) angezeigt wird.

2. Endgerät (10) nach Anspruch 1, worin die vom Informationsdepot (7) abgefragte Information zur öffentlichen Anzeige geeignete und nicht zur öffentlichen Anzeige geeignete Informationen umfasst, das Endgerät (10) ausgebildet ist, die zur öffentlichen Anzeige geeignete Information an der Informationsanzeigeinrichtung (14) anzuzeigen und die nicht zur öffentlichen Anzeige geeignete Information an die Bedienvorrichtung (2) weiterzuleiten.

3. Endgerät (10) nach einem der vorangehenden Ansprüche, worin ein Signal unter Verwendung der zweiten Übertragungsstrecke (4) an die Bedienvorrichtung (2) übertragen wird.

4. Endgerät (10) nach einem der vorangehenden Ansprüche, das Einrichtungen zum Übertragen von Anzeigedaten über die zweite Übertragungsstrecke (4) aufweist.

5. Endgerät (10) nach einem der vorangehenden Ansprüche, das Einrichtungen zur gleichzeitigen Interaktion mit einer Vielzahl von Bedienvorrichtungen aufweist.

6. Verfahren zum Betreiben eines Endgerätes (10) für die interaktive Informationsübermittlung das eine Informationsanzeigeinrichtung (14) und eine Abfrageeinrichtung (15) aufweist, wobei das Verfahren die Schritte umfasst:

Erstellen von Steueranweisungen mittels einer Abfrageeinrichtung (15), um diese über eine erste Übertragungsstrecke (6) an ein Informationsdepot (7) für das Abfragen von Informatio-
Revendications

1. Terminal interactif de diffusion d’informations (10) comprenant une unité d’affichage d’informations (14), des moyens de récupération (15) destinés à engendrer des commandes de pilotage en vue de leur transmission à une mémoire d’informations (7) sur une première liaison de communication (6), pour récupérer des informations à partir de celle-ci, une interface utilisateur (13) destinée à recevoir des commandes de pilotage sur une seconde liaison de communication (4) afin de piloter les moyens de récupération, **caractérisé en ce que** l’interface utilisateur (13) comporte des moyens destinés à reconnaître la présence d’un dispositif d’utilisateur (2) et à établir une connexion avec le dispositif d’utilisateur (2) en utilisant la seconde liaison de communication (4), le terminal comportant en outre des moyens destinés à déterminer les capacités du dispositif d’utilisateur (2) en utilisant la seconde liaison de communication (4) et à transmettre de manière sélective au dispositif d’utilisateur (2) les informations récupérées à partir de la mémoire d’informations (7) en fonction des capacités déterminées, et l’interface utilisateur (13) comporte des moyens destinés à engendrer une alerte servant à indiquer à un utilisateur que la connexion a été établie, ladite alerte étant affichée sur une unité d’affichage de sortie du dispositif d’utilisateur (2).

2. Terminal (10) selon la revendication 1, dans lequel les informations récupérées à partir de la mémoire d’informations (7) comprennent des informations convenant à l’affichage public et ne convenant pas à l’affichage public, le terminal (10) étant adapté pour afficher les informations convenant à l’affichage public sur l’unité d’affichage d’informations (14) et pour transmettre les informations ne convenant pas à l’affichage public sur le dispositif d’utilisateur (2).

3. Terminal (10) selon l’une quelconque des revendications précédentes, dans lequel un signal est transmis au dispositif d’utilisateur (2) en utilisant la seconde liaison de communication (4).

4. Terminal (10) selon l’une quelconque des revendications précédentes, comprenant des moyens destinés à transmettre les données d’affichage sur la seconde liaison de communication (4).

5. Terminal (10) selon l’une quelconque des revendications précédentes, comprenant des moyens destinés à interagir avec une pluralité de dispositifs d’utilisateurs de manière simultanée.

6. Procédé d’exploitation d’un terminal interactif de diffusion d’informations (10), comprenant une unité d’affichage d’informations (14) et des moyens de récupération (15), **ledit procédé comprenant les étapes consistant à** :

engendrer des commandes de pilotage par les moyens de récupération (15) en vue de leur transmission à une mémoire d’informations (7) sur une première liaison de communication (6), afin de récupérer les informations à partir de celle-ci, les commandes de pilotage étant activées en réponse à des commandes de pilotage reçues d’un dispositif d’utilisateur (2) sur une seconde liaison de communication (4) afin de piloter les moyens de récupération (15), **caractérisé par le fait que** le procédé comporte les étapes consistent à :
reconnaître la présence d’un dispositif d’utilisateur (2) et établir une connexion avec le dispositif d’utilisateur (2) en utilisant la seconde liaison de communication (4), déterminer les capacités du dispositif d’utilisateur (2) en utilisant la seconde liaison de communication (4) et transmettre de manière sélective au dispositif d’utilisateur (2) les informations récupérées à partir de la mémoire d’informations (7) en fonction des capacités déterminées, engendrer au niveau de l’interface utilisateur une alerte servant à indiquer que la connexion a été établie, et où l’alerte est affichée sur une unité d’affichage de sortie du dispositif d’utilisateur (2).

7. Procédé selon la revendication 6, comprenant les étapes consistant à reconnaître la présence d’un dispositif d’utilisateur (2) et à établir une connexion sur la seconde liaison de communication (4).

8. Procédé selon la revendication 6 ou 7, dans lequel un signal d’alerte est transmis au dispositif d’utilisateur en utilisant la seconde liaison de communication (4).

9. Procédé selon l’une quelconque des revendications 6 à 8, dans lequel les données d’affichage sont transmises sur la seconde liaison de communication (4).

10. Procédé selon l’une quelconque des revendications 6 à 9, dans lequel le terminal (14) peut interagir avec une pluralité de dispositifs d’utilisateurs de manière simultanée.