

Claims

1. Process for controlling the displaying of media on ~~a display device, such as a~~
5 digital frame (200), under the control of a centralized server (150) accessing a
contextual database (160), the process being based on the periodical transmission
by said frame (200) of a request comprising an identifier of said display device and
also comprising headers defining contextual information reported to said server (150)
and stored within said contextual database (160), said server responding to said
10 request by means of a response defining the media to display, accompanied by
headers defining one or more actions to be executed by said display device (200);

wherein said request is HTTP GET or POST request comprising the identifier of the
frame and the IP address accompanied by headers defining contextual information
to be reported to said server (150) for the purpose of being stored within said
15 database (160), and which responses received from said server comprise a XML file
including a list of URL defining the images to download and display together with the
duration of display, said response also comprising headers defining one or more
actions to be executed by said digital frame (200); and

wherein the digital frame performs a comparison of the XML file with the file being
20 currently displayed to detect any response which would be received from a cache
instead of said server (150); application of the cache by internet provider is inferred
when the received XML file and the file currently displayed are identical; said
detection resulting in the continuation of the displaying of the current media by said
digital frame.

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~~2. Process according to claim 1 characterized in that said display device is a digital
frame (200) and wherein said request are HTTP GET or POST requests comprising
the identifier of the frame and the IP address accompanied by headers defining~~

contextual information to be reported to said server (150) for the purpose of being stored within said database (160), and which responses received from said server comprise a XML file including a list of URL defining the images to download and display together with the duration of display, said response also comprising headers defining one or more actions to be executed by said digital frame (200).

~~3.~~ Process according to claim 2 wherein the digital frame performs a comparison of the XML file with the file being currently displayed for the purpose of detecting any response which would be received from a cache instead of said server (150), said detection resulting in the continuation of the displaying of the current media by said digital frame.

~~4~~2. Process according to claim ~~2 or 3~~1, wherein said digital frame transmits ~~a~~the HTTP GET or POST request accompanied by headers defining one or more pieces of information generated by one or more sensors among the following :

- a brightness sensor;
- means for location;
- one or more safety sensors, such as a smoke detector;

- a compass type sensor.

5 **53.** Process according to claims 1 to **42**, wherein said server (150) transmits an instruction included in one header accompanied said response, said instruction controlling one of the following actions:

- the control of the polling;

~~- the activation or the unactivation of the display;~~

10 ~~- a procedure for checking the correspondence between the frame identifier and the room number;~~

- a procedure for generating metrics regarding cache procedures used by the Internet Access Provider (IAP);

~~- a procedure for displaying a note dedicated to the guest of the particular room wherein is located the digital frame;~~

15 ~~- a discovery procedure for the wireless network environment of the frame, particularly applicable in infrastructure mode.~~

20 **64.** Process according to anyone of the preceding claims wherein said server (150) transmits a response complying with MRSS standard identifying the URL of the photographs to display with the display time, said response being accompanied by additional HTTP headers defining actions to be executed by the digital frame.

25 ~~7. Process according to anyone of the preceding claims wherein the display devices are digital frames set up in hotels under the control of a centralized server (150) wherein the database comprises a mapping table between the identifiers of said digital frames and the room number/name as well as information relative to the check-in and check-out of the rooms.~~

30 ~~8. Process according to claim 7 wherein said frame (200) transmits information to said server (150) for the purpose of performing a likelihood analysis and detecting any move of said frame.~~

~~9. Process according to claim 1 wherein said display device is the display of a tactile tablet or that of a computer being used during a stand-by mode.~~

~~10. Display device, such as a digital frame lacking in any keyboard, comprising means for performing anyone of the processes defined in anyone of the preceding claims, and further comprising at least one sensors among the following:~~

- ~~-a brightness sensor;~~
- ~~-means for location;~~
- ~~-one or more safety sensors, such as a smoke detector;~~
- ~~-a compass type sensor.~~

~~11. Display device according to claim 10 comprising means for detecting, in infrastructure or in adhoc mode, visible wireless networks as well as the n display devices located in the neighborhood, so as to report such information to said server (150) and store it within said database (160).~~

~~12. Display device according to claim 10 or 11 characterized in that it comprises a camera for capturing one image which is to be transmitted via a HTTP POST request to said server (150) and stored within said database (160).~~

~~13. Information Handling system comprising a central unit, memory and a display device, as well as circuits for entering into stand-by mode, said system comprising means for controlling said display device so as to allow the displaying of media under the control of a centralized server (150) accessing a contextual database (160), the displaying of media being based on the periodical transmission by said computer of a request comprising an identifier and accompanied by headers defining contextual information to be reported to said server (150) and stored within said database (160), said server responding to said request by means of a response defining the specific media or slideshow to display, accompanied by headers defining one or more actions to execute by said computer when in stand-by mode.~~

~~14. System according to claim 13, characterized in that it consists in a tactile tablet or a computer fitted with a keyboard.~~

~~15. Process of interaction between a digital frame displaying a digital media or slideshow under control of a centralized server (150) and a mobile information~~

~~handling system (IHS), such as a mobile smartphone, a tactile tablet or a laptop etc..., said process involving the steps of:~~

~~displaying by said digital frame a QR code which can be scanned by photograph, said QR code comprising an identifier of said digital frame as well as an identifier of a resource (URL) allowing the installation of an application or an access to said centralized server for the purpose of establishing an interaction between images displayed by said digital frame and data input by the owner of said mobile information handling system.~~

~~**16.** Process according to claim 15 wherein said interaction is adapted to the execution and completion of a transaction.~~

~~**17.** Process according to claim 15 or 16 wherein the displaying of media on said display device is based on the periodical transmission by said frame (200) of a request comprising an identifier of said display device and also comprising headers defining contextual information reported to said server (150) and stored within said contextual database (160), said server responding to said request by means of a response defining the media to display, accompanied by headers defining one or more actions to be executed by said display device (200).~~

~~**18.** Process according to claim 17 characterized in that said display device is a digital frame (200) and wherein said request are HTTP GET or POST requests comprising the identifier of the frame and the IP address accompanied by headers defining contextual information to be reported to said server (150) for the purpose of being stored within said database (160), and which responses received from said server comprise a XML file including a list of URL defining the images to download and display together with the duration of display, said response also comprising headers defining one or more actions to be executed by said digital frame (200).~~

~~19. Transaction process between a mobile information handling system, such as a mobile smartphone, a tactile tablet, and a centralized server (150), comprising the steps:~~

~~—gathering of contextual information comprising at least infrastructure information relating to access points which are visible to said system;~~

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~~—transmission of said contextual information to a centralized server (150) having an access to a contextual database;~~

~~—the presentation of a contextual offer for a service in accordance with the contextual information, such as infrastructure gathered by said system;~~

5 ~~—the completion and validation of a transaction based on said offer for service.~~

~~20. Process according to anyone of the preceding claims wherein said mobile information handling system is a smartphone a tablet or a laptop.~~

10 ~~21~~5. Display device adapted for performing the process defined in anyone of the claims 1-~~anyone of the process defined in claims 15 to 20~~4.

~~22~~6. Software computer program comprising program code elements for performing anyone of the processes of claims ~~15 to 21~~1-4.

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