

WHAT IS CLAIMED IS:

1. A system for biometric based information communication comprising:
a biomedical device including:
5 a sensing means;
 an energization device; and
 a communication means;
a bed smart device, wherein the bed smart device is paired in a communication
 protocol with the biomedical device;
10 a communication hub, wherein the hub receives communication containing at
least a data value from the biomedical device and transmits the communication to a
content server; and
 a feedback element, wherein the biomedical device measures a user's biometric
while the user is sleeping..
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2. The system of Claim 1, wherein a user personal device is paired in a communication
protocol with the communication hub.
3. The system of Claim 2, wherein the feedback element is located on the user personal
20 device.
4. The system of Claim 2, wherein the biomedical device is selected from one or more of a
glucose monitor, body movement sensor, an oximetry based sensor, an aural oximetry
sensor, a contact lens based oximetry sensor, an EEG cap, a glucose analyte contact lens
25 sensor, a contact lens based rapid eye movement sensor, a dental insert based sound
sensor and a bandage sensor,
5. The system of Claim 4, wherein the biomedical device is an oximetry sensor built into an
ear clip device.
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6. The system of Claim 1, wherein the feedback element is located in the bed smart device.

7. The system of Claim 6, wherein the feedback element includes a vibrational transducer.
8. The system of Claim 1, wherein the content server transmits a targeted message through a
5 biometric information communication system to the feedback element.
9. The system of Claim 1, wherein the sensing means comprises an element to monitor a
user's breathing rate.
10. The system of Claim 1, wherein the sensing means comprises an element to monitor a
10 user's pulse.
11. The system of Claim 1, wherein the sensing means comprises an element to monitor a
user's intraocular pressure.
12. The system of Claim 1, wherein the sensing means comprises an element to monitor a
15 user's eye motion.
13. The system of Claim 1, wherein the sensing means comprises an element to monitor the
20 sound of a user's snore.
14. The system of Claim 1, wherein the sensing means comprises an element to monitor a
user's blood glucose level.
15. The system of Claim 1, wherein the sensing means comprises an element to monitor a
25 user's blood pressure.
16. The system of Claim 1, wherein the sensing means comprises an element to monitor a
30 user's blood oximetry level.

17. The system of Claim 1, wherein the bed smart device controls an elevation of the head of the bed.

18. A method to communicate a message, the method comprising:

5 obtaining a biomedical device capable of performing a biometric measurement;
 locating the biomedical device within a user's bedroom;
 pairing, with a wireless communication protocol, the biomedical device with a
 bed smart device within the user's bedroom;
 utilizing the biomedical device to perform the biometric measurement while the
10 user is sleeping;
 communicating a biometric data result obtained by the biometric measurement;
 receiving the biometric data result at a content server;
 receiving a message based upon the communication of a biometric data result
 obtained by the biometric measurement; and
15 communicating the message to a user with a feedback device.

19. A method to communicate a message, the method comprising:

 providing a biomedical device capable of performing a biometric measurement;
 locating the biomedical device within a bedroom of a user;
20 receiving a communication from a bed smart device, wherein the communication
 comprises at least a data value corresponding to a biometric result obtained with the
 biomedical device while the user is sleeping;
 receiving the communication at a content server;
 processing the biometric result with a processor, wherein the processing generates
25 a message data stream; and
 transmitting the message data stream to the bed smart device or biomedical
 device.

30 20. The method of claim 18 or claim 19, wherein the biomedical device is selected from one
 or more of a glucose monitor, body movement sensor, an oximetry based sensor, an aural
 oximetry sensor, a contact lens based oximetry sensor, an EEG cap, a glucose analyte

contact lens sensor, a contact lens based rapid eye movement sensor, a dental insert based sound sensor and a bandage sensor.

21. A method comprising:

5 obtaining a first device, wherein the first device is capable to measure at least a first biometric of a user;
 measuring the first biometric with the first device to obtain biometric data, wherein the measurement occurs when the user is sleeping;
 obtaining a second device, wherein the second device is a user personal device
10 including a display and a network communication device;
 authorizing a paired communication between the first device and the second device;
 communicating the biometric data from the first device to the second device;
 communicating the biometric data to a computing device connected to a network;
15 authorizing the computing device, via a signal from the first device, to obtain status data related to status of a bed from a bed smart device;
 authorizing the computing device to initiate an algorithm to be executed to retrieve a targeted and individualized content based on the biometric data, the bed status data and a personalized preference determination calculated via predictive analysis to
20 generate the targeted and individualized content;
 receiving a message comprising the targeted and individualized content to the second device; and
 displaying the message to the user.

22. The method of claim 21, wherein the first device is selected from one or more of a
25 glucose monitor, body movement sensor, an oximetry based sensor, an aural oximetry sensor, a contact lens based oximetry sensor, an EEG cap, a glucose analyte contact lens sensor, a contact lens based rapid eye movement sensor, a dental insert based sound sensor and a bandage sensor.

30 23. The method of Claim 22, wherein the first device comprises a worn biomedical device.

24. The method of Claim 23, wherein the worn biomedical device is a contact lens.

25. The method of Claim 23, wherein the worn biomedical device is a smart ring.

5 26. The method of Claim 21, wherein the second device comprises a smart phone.

27. The method of Claim 21, wherein the second device comprises a smart watch.

10 28. The method of Claim 21, wherein the first device comprises a biomedical device within one or more of a pillow, a sheet or a blanket.