

What is claimed

1. A Mobile Wireless Broadband Network Interface Card (MWBNIC) for networking electronic devices and broadband nodes to deliver data comprising:
 - a circuit board;
 - a wireless radio antenna for wirelessly interfacing with the wireless broadband routers connected to Gwahanzas and servers by wires;
 - a broadband radio filter coupled to the wireless radio antenna;
 - at least one amplifier for enhancing outgoing and incoming signal;
 - a modulator for converting the outgoing digital signals into analog for radio transmission;
 - at least one processor on the circuit board;
 - a demodulator for converting incoming signal into digital for processing;
 - a dedicated cache memory for temporarily storing the last N data packets from the broadband router for networking with the next wireless router to be connected to, to maintain data packet continuity;
 - a network packet controller coupled to cache memory, modulator and demodulator to control data packets in and out of the mobile wireless broadband network interface card;
 - a packet control protocol, software embedded in the network packet controller coupled to the processor for networking wireless nodes and delivering data to electronic devices in motion over broadband spectrums;

a mechanism for determining signal strength of nodes in range coupled to the network packet controller and processor for switching nodes

a frequency up or down converter coupled to the network packet controller for switching to frequency of the next router to be connected to;

a table with node locations in each WAN and pre-calculated values of coordinates for each short distance such as one meter or less that are extracted for determining which nodes to switch to;

an interface to a user device from where power control and other commands are sent to the processor for execution;

a plurality of data ports coupled to the processor, modulator and demodulator through the network packet controller to allow for interaction with the devices being networked and input output.

2. The mobile wireless broadband network Interface card of claim 1, connects to at least one K-Node when in motion.
3. The mobile wireless broadband network interface card of claim 2, simultaneously receives data packets from multiple nodes via at least one input port wherein, instantaneously saves the last N packets from each of the nodes that are connected to in memory and deletes the previous N data packets replacing them with the new packets.
4. Data packets in the mobile wireless broadband network interface card of claim 2 are divided into two categories namely networking and user device service data wherein packets in each category are received at different frequencies that are assigned specific ports.

5. Networking data packets of the wireless broadband network interface card of claim 4 are received from every other node at specific frequencies wherein the connecting Mobile Wireless Broadband Network Interface card easily finds a frequency under which to connect to the next K-Node.
6. Each type of service data received through the mobile wireless broadband network interface card of claim 4, flows through a designated port at specific ranges of frequencies.
7. The network packet controller of claim 1 coupled to the processor, modulator, demodulator and external ports utilize an embedded packet control protocol that manages connectivity and data transmission within the Mobile Wireless Broadband Network Interface Card hence built into devices as an internal modem or external plug and play modem.
8. Algorithm of the Packet Control Protocol of claim 7 temporarily stores the last N data packets from a connected K-Node at anytime and deletes the previous N data packets in a dedicated memory.
9. The Packet Control Protocol of claim 7 is characterized by different memory locations and modules for each data type that is delivered during device hop from one K-Node to another.
10. The packet control protocol of claim 9 executes from the network packet controller in the MWBNIC and identifies data packets by packet ID wherein, the next packet selected for processing has an id of a higher magnitude than the packet from the previous K-Node.
11. The Packet Control Protocol of Claim 10 that maintains order and continuity of packets from different nodes compares the packet ID from a previous K-Node to the packet id of the newly connected to K-Node

wherein sets a packet with ID X-1 as previous and one with packet ID X as current data packet.

12. The packet control protocol of claim 11 pushes data packets onto at least one stack in cache and pops the last packet for comparison to the first data packet from a newly connected to K-Node to maintain packet order.
13. The Mobile Wireless Broadband Network Interface Card of claim 1 sends a connection request to multiple wireless K-nodes in range transmitting its identification and other data to the nodes for authentication;
14. The mobile wireless broadband network interface card of claim 13 receives data packets from wireless K-Nodes through at least one communication port and determines the strongest signal strength to connection to.
15. The mobile wireless broadband network interface card of claim 14, connects to the nodes with the strongest signal strength until a new node with greater strength is encountered in its direction of travel dropping the one with the least strength after authenticating to the new node;
and
as it gets out of range of the K-Node's networking frequency.
16. The mobile wireless broadband network interface card of claim 2, receives data packets broadcasted by nodes with a time to leave attribute and utilizes arrival time to determine the signal travel time wherein, multiplication of signal travel time with signal speed provides node distance and hence coordinates.

17. The mobile wireless broadband network interface card of claim 16 reads pre-determined and tabulated positions data which provides it with the next node to connect to based on its calculated distance and coordinates
18. The mobile wireless broadband network interface card of claim 4, connects automatically to different nodes each through a different frequency filter establishing more than one simultaneous connections wherein data flow, network range check, and signal strength check takes place concurrently.
19. The mobile wireless broadband network interface card of claim 2 is instructed by the Gwahanza LAN Manager what node to connect to next utilizing frequency of the broadcasting K-Node in range or signal strength and a connection code.
20. The mobile wireless broadband network interface card of claim 19 is instructed to connect to a next K-Node based on its position from the nearest nodes wherein pre-determined data is utilized to connect.
21. The data packets transmitted to the wireless broadband Network Interface card of claim 5 are received via at least one input port and converted to digital format for use by the device in which it is installed.
22. The Wireless Broadband Network Interface Card of claim 5, converts outgoing digital data into a form that is transmittable over the airwaves.
23. The Wireless Broadband Network Interface Card of claim 3 is build into auxiliary devices including mobile phones, tablets, laptop computers, televisions, vehicles, cameras, navigation devices and any that requires wireless networking.

24. The Wireless Broadband Network Interface Card of claim 3 is built to plug into external ports of devices including USB and Firewire.
25. The Wireless Broadband Network Interface Card of claim 23 is built with at least one external port that connects to wires including fiber optics.
26. Said Packet Control Protocol of the Mobile Wireless Broadband Network Interface Card in claim 9 interacts with a mini database on the card that stores temporary information from the network wherein data stored in this database is utilized to complete a network connection.
27. The Packet Control Protocol of the Mobile Wireless Broadband Network Interface Card of claim 9 interacts with a file on the card that stores temporary information from the network wherein the data stored in this file is utilized to complete a network connection.
28. A method of connecting and switching a mobile device with a MWBNIC on a wireless network from one K-Node to another utilizing a Gwahanza Local Area Network manager is characterized by a Network Control Protocol that determines the mobile device's location and direction of motion relative to the wireless K-Nodes in range then directs it to the next K-Node to connect to for service.
29. The Gwahanza set forth in claim 28 generates a connection code that it appends to the connecting device's identity along with the Gwahanza's id and the next K-Node id to submit via a wire to the next K-Node as a connection request for authentication.
30. Said Gwahanza of claim 29 submits the same connection request to the connecting device via the K-Node it is currently connected to wherein, the

device broadcasts the connection request which is picked and processed by the next K-Node for authentication and service.

31. The next K-Node of claim 30 compares the connection request submitted by the device to the connection request submitted by the Gwahanza Local Area Network Manager and authenticates the device to switch to the K-Node.
32. The Gwahanza set forth in claim 29 determines the next node for a MWBNIC to connect to based on wavelength or frequency at which the wireless K-Node is communicating.
33. Said Gwahanza of claim 32 receives device connection request from a wireless node via cable and verifies the device by reading device records on server wherein temporary network data is stored on the Mobile Wireless Broadband Network Interface Card.
34. The Gwahanza of claim 33 receives service requests from connecting devices and assign data ports based on type of service requested wherein the Network Control Protocol in the Gwahanza LAN manager assigns an application port for both the device and Gwahanza connection.
35. The Packet Control Protocol of the Mobile Wireless Broadband Network Interface Card set forth in claim 3, wherein establishes connectivity by comparing the identifiers of the K-Nodes to connect to and saving the incoming signal from those nodes to buffer for authentication and process.
36. The network interface card utilized in the modem of claim 3, concurrently writes and deletes to different data structures or memory locations that temporarily store incoming data.
37. The wireless broadband network interface card in said modem of claim 23 networks devices on wi-fi nodes to deliver service while in motion.