CLAIMS

1. A smart device comprising:

   a blockchain application module configured to automatically blockchain data obtained by the smart device into a blockchain of immutable blocks of data via hash-linking and time-stamping to chain all blocks of data together,

   wherein the blockchain application module is provided in one of: a microcontroller chip of the smart device, a memory chip of the smart device, and a separate microprocessor chip in the smart device,

   the smart device configured to automatically transmit the blockchain comprising the blockchained data to a blockchain data system.

2. The smart device of claim 1, wherein the smart device is configured to transmit blockchained data to the blockchain data system via at least one of: the Internet, a cellular network, a Bluetooth Low Energy wireless network, satellite.

3. The smart device of claim 1 or claim 2, wherein the smart device further comprises a tag uniquely associated with the smart device and configured to automatically and periodically emit a signal, the signal being a Bluetooth Low Energy signal configured to be sent and received via the Bluetooth Low Energy network.

4. The smart device of claim 2 or claim 3, wherein the smart device further comprises a Global Navigation Satellite System (GNSS) module for location tracking of the smart device via GNSS.

5. The smart device of any one of the preceding claims, further comprising a physical lock to releasably secure the smart device to an item, the physical lock in electronic communication with the smart device.

6. The smart device of any one of the preceding claims, wherein at least a portion of the data obtained by the smart device is provided to the smart device from at least one sensor in communication with the smart device.

7. A smart tracking system comprising:

the smart device of any one of the preceding claims; and

a blockchain data system comprising a number of blockchain nodes each configured to receive and store a copy of the blockchain comprising the blockchained data transmitted from the smart device.

8. The smart tracking system of claim 7, further comprising at least one sensor in communication with the smart device to provide at least a portion of the data obtained by the smart device.

9. The smart tracking system of any one of claims 7 or 8, wherein at least some of the number of blockchain nodes are each maintained by a distinct one of a number of transacting parties in a commercial matter using the smart tracking system.

10. The smart tracking system of any one of claims 7 to 9, wherein the blockchained data in the blockchain data system is made accessible to only authorized parties.

11. A trade financing platform comprising the smart tracking system of any one of claims 7 to 10, wherein the smart device is attached to goods involved in a transaction handled using the trade financing platform, and wherein the smart device is configured to automatically determine at least one of: location and security of the goods, and to periodically blockchain data of the goods into a blockchain and transmit the blockchain comprising the blockchained data to the blockchain data system.