WHAT IS CLAIMED IS:

1. A system for blockchain-based asset authentication, comprising:

at least one platform server associated with a blockchain platform;

at least one database configured to store information associated with an asset; and

at least one application program associated with an owner of the asset,

wherein the at least one platform server is configured to:

configure a first pairing between the asset and an authentication mechanism that uniquely identifies and stores at least a subset of the information, and

write to the blockchain platform, using a first application programming interface (API), a transaction that is correlated with the first pairing,

wherein the at least one application program is configured to:

transmit to the at least one platform server, using a second API different from the first API, a first message indicative of the owner acquiring the asset, and

wherein the at least one platform server is further configured to:

receive, using the second API, the first message from the at least one application program,

generate, upon receipt on the first message, a digital passport corresponding to the first pairing,

configure a second pairing between the owner and the asset, and

write to the blockchain platform, using the first API, another transaction that is correlated with the second pairing, wherein the second pairing is immutably linked to the first pairing.

2. The system of claim 1, wherein the authentication mechanism is a Radio Frequency Identification (RFID) tag, a Near Field Communication (NFC) tag, or a holographic sticker that is associated with the asset, and wherein the authentication mechanism is adapted to remain with the asset through its lifecycle.

3. The system of claim 1, wherein the authentication mechanism is an image capture device.

4. The system of claim 1, wherein the at least one application program is further configured to store the digital passport in a digital Web3 wallet.

5. The system of claim 1, wherein the at least one platform server is further configured to:

create a digital representation of the asset; and

write, using the first API, still another transaction that is correlated with a third pairing between the digital representation and the asset, wherein the third pairing is immutably linked to the first pairing and the second pairing, and the digital representation can be used by the owner or a third party in a virtual reality ecosystem.

6. The system of claim 1, wherein the digital passport enables the owner to access a marketing event associated with a manufacturer of the asset, a partnership promotion associated with other owners of other instances of the asset, or a cross-selling event associated with manufacturers of other similar goods.

7. The system of claim 1,

wherein the at least one application program is further configured to:

transmit to the at least one platform server, using the second API, a second message indicative of a subsequent owner acquiring the asset, and

wherein the at least one platform server is further configured to:

revoke or deactivate the digital passport upon receipt of the second message,

generate, based on the second message and the information, a new digital passport corresponding to the first pairing and a third pairing between the subsequent owner and the asset,

write to the blockchain platform, using the first API, yet another transaction that is correlated with the third pairing, wherein a link between the second pairing and the first pairing is invalidated, and wherein the third pairing is immutably linked to the first pairing, and

transmit the new digital passport to the subsequent owner.

8. The system of claim 7, wherein the at least one platform server is further configured to:

create a digital representation of the asset; and

write, using the first API, still another transaction that is correlated with a fourth pairing between the digital representation and the asset, wherein the fourth pairing is immutably linked to the third pairing and the first pairing, and wherein the digital representation can be used exclusively by the subsequent owner in a virtual reality ecosystem.

9. The system of claim 7, wherein the new digital passport enables the subsequent owner to access an event associated with a manufacturer of the asset, and wherein each previous owner is restricted from accessing the event due to the digital passport being revoked or deactivated.

10. The system of claim 7, wherein an authenticity of a purchase of the asset by the subsequent owner is based on a third-party validator, a gated non-fungible token (NFT), or a digital indication to the third pairing on the blockchain platform.

11. The system of claim 1, wherein the information associated with the asset comprises a product serial number, a product description, a manufacturing date, a proof of authenticity, and/or compliance information.

12. The system of claim 1, wherein the digital passport comprises a QR code, an encoded visual identifier, or a unique wireless signal.

13. The system of claim 1, wherein the digital passport comprises a portion of the subset of the information associated with the asset.

14. A method for blockchain-based asset authentication, comprising:

receiving, by at least one platform server associated with a blockchain platform, information associated with an asset, wherein said information is stored in at least one database;

configuring a first pairing between the asset and an authentication mechanism that uniquely identifies and stores at least a subset of the information;

writing to the blockchain platform, using a first application programming interface (API), a transaction that is correlated with the first pairing;

receiving, from at least one application program using a second API different from the first API, a first message indicative of an owner acquiring the asset, wherein the at least one application program is associated with the owner;

generating, upon receipt of the first message, a digital passport corresponding to the first pairing,

configuring a second pairing between the owner and the asset; and

writing to the blockchain platform, using the first API, another transaction that is correlated with the second pairing, wherein the second pairing is immutably linked to the first pairing.

15. The method of claim 14, further comprising:

transmitting, to an insurance coverage provider, the digital passport; and

receiving, from the insurance coverage provider, a policy covering the asset against a loss.

16. A system for managing programmable value distribution linked to a verified physical product, comprising:

at least one platform server operatively associated with a blockchain platform and configured to maintain a distributed ledger;

at least one application program associated with an owner, user, or stakeholder of the product;

at least one authentication mechanism uniquely paired with the product and linked to a digital passport;

wherein the system is configured to:

record an initial transaction linking the authentication mechanism to the product on the blockchain;

generate a digital passport representing the product and associating it with one or more designated parties;

detect a transaction involving the product or digital passport, including transfer, resale, or usage;

calculate a value amount based on programmable rules or a basis point structure; and

automatically distribute portions of the value amount to a plurality of recipients, including manufacturers, suppliers, creators, consumers, or other parties,

wherein value distribution is enforced as a condition of transaction finalization and may recur in perpetuity following issuance of the digital passport.

17. A method for managing programmable value distribution related to a physical product, comprising:

pairing the product with an authentication mechanism and generating a corresponding digital passport;

recording a first blockchain transaction establishing identify and origin of the product;

associating the digital passport with one or more stakeholders including at least a creator, supplier, or owner;

detecting a qualifying transaction involving the product or passport;

calculating a value amount using predefined rules or a basis point structure; and

distributing portions of the value amount to a plurality of designated recipients, wherein the transaction is finalized only upon successful distribution, and

wherein value distribution may repeat in perpetuity during the product lifecycle.