What is claimed is:

1. A computer-implemented method comprising:

receiving, by a blockchain decentralized application, data identifying goods for shipping, data identifying a shipper of the goods, and a cryptographic key;

processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the shipper using the cryptographic key;

storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the shipper;

receiving, by the blockchain decentralized application, a query requesting data associated with the goods;

accessing, by the blockchain decentralized application, the data associated with the goods from the blockchain; and

providing, for output, the data associated with the goods.

2. The method of claim 1, comprising:

receiving the query requesting the data associated with the goods by receiving, from a user, the query requesting the data associated with the goods and data identifying the user; and

based on receiving the query requesting data associated with the goods and based on the data identifying the user, determining, by the blockchain decentralized application, that the user is authorized to access the data associated with the goods.

3. The method of claim 1, wherein storing the processed data identifying the goods and the processed data identifying the shipper comprises:

storing a portion of the processed data identifying the goods in a first portion of the block chain that remains online; and

storing a remaining portion of the processed data identifying the goods in a second portion of the block chain that remains offline.

4. The method of claim 1, comprising:

receiving, by the blockchain decentralized application, the data identifying the goods, data identifying a consignee, and an additional cryptographic key;

processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the consignee using the additional cryptographic key; and

storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the consignee.

5. The method of claim 4, wherein receiving the data identifying the goods, the data identifying the consignee, and the additional cryptographic key comprises receiving data indicating that the consignee is receiving the goods from the shipper.

6. The method of claim 1, wherein:

processing the data identifying the goods and the data identifying the shipper using the cryptographic key comprises:

identifying a blockchain wallet of the shipper, and

storing the processed data identifying the goods and the processed data identifying the shipper comprises:

storing the processed data identifying the goods in the blockchain wallet of the shipper.

7. The method of claim 1, wherein:

receiving the query requesting data associated with the goods comprises receiving a request for data identifying an entity that is in possession of the goods;

accessing the data associated with the goods from the blockchain comprises identifying a blockchain wallet that indicates that a particular entity is in possession of the goods; and

providing the data associated with the goods comprises providing data indicating that the particular entity is in possession of the goods.

8. A system comprising:

one or more computers; and

one or more storage devices storing instructions that are operable, when executed by the one or more computers, to cause the one or more computers to perform operations comprising:

receiving, by a blockchain decentralized application, data identifying goods for shipping, data identifying a shipper of the goods, and a cryptographic key;

processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the shipper using the cryptographic key;

storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the shipper;

receiving, by the blockchain decentralized application, a query requesting data associated with the goods;

accessing, by the blockchain decentralized application, the data associated with the goods from the blockchain; and

providing, for output, the data associated with the goods.

9. The system of claim 8, wherein the operations comprise:

receiving the query requesting the data associated with the goods by receiving, from a user, the query requesting the data associated with the goods and data identifying the user; and

based on receiving the query requesting data associated with the goods and based on the data identifying the user, determining, by the blockchain decentralized application, that the user is authorized to access the data associated with the goods.

10. The system of claim 8, wherein storing the processed data identifying the goods and the processed data identifying the shipper comprises:

storing a portion of the processed data identifying the goods in a first portion of the block chain that remains online; and

storing a remaining portion of the processed data identifying the goods in a second portion of the block chain that remains offline.

11. The system of claim 8, wherein the operations comprise:

receiving, by the blockchain decentralized application, the data identifying the goods, data identifying a consignee, and an additional cryptographic key;

processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the consignee using the additional cryptographic key; and

storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the consignee.

12. The system of claim 11, wherein receiving the data identifying the goods, the data identifying the consignee, and the additional cryptographic key comprises receiving data indicating that the consignee is receiving the goods from the shipper.

13. The system of claim 8, wherein:

processing the data identifying the goods and the data identifying the shipper using the cryptographic key comprises:

identifying a blockchain wallet of the shipper, and

storing the processed data identifying the goods and the processed data identifying the shipper comprises:

storing the processed data identifying the goods in the blockchain wallet of the shipper.

14. The system of claim 8, wherein:

receiving the query requesting data associated with the goods comprises receiving a request for data identifying an entity that is in possession of the goods;

accessing the data associated with the goods from the blockchain comprises identifying a blockchain wallet that indicates that a particular entity is in possession of the goods; and

providing the data associated with the goods comprises providing data indicating that the particular entity is in possession of the goods.

15. A non-transitory computer-readable medium storing software comprising instructions executable by one or more computers which, upon such execution, cause the one or more computers to perform operations comprising:

receiving, by a blockchain decentralized application, data identifying goods for shipping, data identifying a shipper of the goods, and a cryptographic key;

processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the shipper using the cryptographic key;

storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the shipper;

receiving, by the blockchain decentralized application, a query requesting data associated with the goods;

accessing, by the blockchain decentralized application, the data associated with the goods from the blockchain; and

providing, for output, the data associated with the goods.

16. The medium of claim 15, wherein the operations comprise:

receiving the query requesting the data associated with the goods by receiving, from a user, the query requesting the data associated with the goods and data identifying the user; and

based on receiving the query requesting data associated with the goods and based on the data identifying the user, determining, by the blockchain decentralized application, that the user is authorized to access the data associated with the goods.

17. The medium of claim 15, wherein storing the processed data identifying the goods and the processed data identifying the shipper comprises:

storing a portion of the processed data identifying the goods in a first portion of the block chain that remains online; and

storing a remaining portion of the processed data identifying the goods in a second portion of the block chain that remains offline.

~~18. The medium of claim 15, wherein the operations comprise:~~

~~receiving, by the blockchain decentralized application, the data identifying the goods, data identifying a consignee, and an additional cryptographic key;~~

~~processing, by the blockchain decentralized application, the data identifying the goods and the data identifying the consignee using the additional cryptographic key; and~~

~~storing, by the blockchain decentralized application and in a blockchain, the processed data identifying the goods and the processed data identifying the consignee.~~

~~19. The medium of claim 15, wherein:~~

~~processing the data identifying the goods and the data identifying the shipper using the cryptographic key comprises:~~

~~identifying a blockchain wallet of the shipper, and~~

~~storing the processed data identifying the goods and the processed data identifying the shipper comprises:~~

~~storing the processed data identifying the goods in the blockchain wallet of the shipper.~~

~~20. The medium of claim 15, wherein:~~

~~receiving the query requesting data associated with the goods comprises receiving a request for data identifying an entity that is in possession of the goods;~~

~~accessing the data associated with the goods from the blockchain comprises identifying a blockchain wallet that indicates that a particular entity is in possession of the goods; and~~

~~providing the data associated with the goods comprises providing data indicating that the particular entity is in possession of the goods.~~

1. A computer-implemented method comprising:

receiving, from a shipper of goods and by a blockchain decentralized application that manages a wallet for the shipper and wallets for multiple carriers that indicate

space that is available for each respective carrier, data, in a legacy data format, that identifies the goods that are to be shipped, and a cryptographic key;

selecting, by the blockchain decentralized application and from among the wallets for multiple carriers that are managed by the blockchain centralized application, a particular wallet for a particular carrier that indicates that space is available to ship the goods;

reformatting, by the blockchain decentralized application, the data that identifies the goods that are to be shipped from the legacy data format into a standard data format;

generating, by the blockchain decentralized application, a first additional block to add to a blockchain based on the reformatted data and the cryptographic key, the first additional block including data that indicates that the wallet of the shipper has possession of the goods and data that indicates that the shipper has booked space to ship the goods in the selected, particular wallet of the particular carrier;

storing, by the blockchain decentralized application, the first additional block in the blockchain;

receiving, by the blockchain decentralized application, an indication from the shipper that the particular carrier has taken possession of the goods;

in response to receiving the indication from the shipper that the particular carrier has taken possession of the goods, generating, by the blockchain decentralized application, a second additional block to add to the blockchain based on the reformatted data and the cryptographic key, the second additional block including data that indicates that the wallet of the shipper is not in possession of the goods, and data that indicates that the selected, particular wallet of the particular carrier has possession of the goods;

storing, by the blockchain decentralized application, the second additional block in the blockchain, and

at any time before or after the goods are shipped, using, by the blockchain decentralized application, the blockchain to respond to third party shipping status queries about the goods.

2. The method of claim 1, wherein the particular wallet for the particular carrier is selected without separately querying a resource controlled by the particular carrier to determine if space is available.

3. The method of claim 1, wherein the particular wallet for the particular carrier is selected by the blockchain decentralized application without further involvement of the shipper.

4. The method of claim 1, comprising generating, by a system that includes the blockchain decentralized application, a draft bill of lading for the shipper based on data stored in the blockchain.

5. The method of claim 1, comprising generating, by a system that includes the blockchain decentralized application, a draft bill of lading for the shipper based on rules stored in a smart contract layer.

6. The method of claim 1, wherein the second additional block includes a bill of lading for the goods.

7. The method of claim 1, wherein using the blockchain to respond to third party shipping status queries comprises:

receiving a query from a customs agent; and

providing data from the first additional block and the second additional block to the customs agent in response to the query.

8. The method of claim 1, wherein the blockchain is an offline blockchain, and wherein storing the first additional block or the second additional block comprises bringing the offline blockchain online.

9. A system comprising:

one or more computers; and

one or more storage devices storing instructions that are operable, when executed by the one or more computers, to cause the one or more computers to perform operations comprising:

receiving, from a shipper of goods and by a blockchain decentralized application that manages a wallet for the shipper and wallets for multiple carriers that indicate space that is available for each respective carrier, data, in a legacy data format, that identifies the goods that are to be shipped, and a cryptographic key;

selecting, by the blockchain decentralized application and from among the wallets for multiple carriers that are managed by the blockchain centralized application, a particular wallet for a particular carrier that indicates that space is available to ship the goods;

reformatting, by the blockchain decentralized application, the data that identifies the goods that are to be shipped from the legacy data format into a standard data format;

generating, by the blockchain decentralized application, a first additional block to add to a blockchain based on the reformatted data and the cryptographic key, the first additional block including data that indicates that the wallet of the shipper has possession of the goods and data that indicates that the shipper has booked space to ship the goods in the selected, particular wallet of the particular carrier;

storing, by the blockchain decentralized application, the first additional block in the blockchain;

receiving, by the blockchain decentralized application, an indication from the shipper that the particular carrier has taken possession of the goods;

in response to receiving the indication from the shipper that the particular carrier has taken possession of the goods, generating, by the blockchain decentralized application, a second additional block to add to the blockchain based on the reformatted data and the cryptographic key, the second additional block including data that indicates that the wallet of the shipper is not in possession of the goods, and data that indicates that the selected, particular wallet of the particular carrier has possession of the goods;

storing, by the blockchain decentralized application, the second additional block in the blockchain, and

at any time before or after the goods are shipped, using, by the blockchain decentralized application, the blockchain to respond to third party shipping status queries about the goods.

10. The system of claim 9, wherein the particular wallet for the particular carrier is selected without separately querying a resource controlled by the particular carrier to determine if space is available.

11. The system of claim 9, wherein the particular wallet for the particular carrier is selected by the blockchain decentralized application without further involvement of the shipper.

12. The system of claim 9, wherein the operations comprise generating, by the system that includes the blockchain decentralized application, a draft bill of lading for the shipper based on data stored in the blockchain.

13. The system of claim 9, wherein the operations comprise generating, by the system that includes the blockchain decentralized application, a draft bill of lading for the shipper based on rules stored in a smart contract layer.

14. The system of claim 9, wherein the second additional block includes a bill of lading for the goods.

15. The system of claim 9, wherein using the blockchain to respond to third party shipping status queries comprises:

receiving a query from a customs agent; and

providing data from the first additional block and the second additional block to the customs agent in response to the query.

16. The system of claim 9, wherein the blockchain is an offline blockchain, and wherein storing the first additional block or the second additional block comprises bringing the offline blockchain online.

17. A non-transitory computer-readable medium storing software comprising instructions executable by one or more computers which, upon such execution, cause the one or more computers to perform operations comprising:

receiving, from a shipper of goods and by a blockchain decentralized application that manages a wallet for the shipper and wallets for multiple carriers that indicate space that is available for each respective carrier, data, in a legacy data format, that identifies the goods that are to be shipped, and a cryptographic key;

selecting, by the blockchain decentralized application and from among the wallets for multiple carriers that are managed by the blockchain centralized application, a particular wallet for a particular carrier that indicates that space is available to ship the goods;

reformatting, by the blockchain decentralized application, the data that identifies the goods that are to be shipped from the legacy data format into a standard data format;

generating, by the blockchain decentralized application, a first additional block to add to a blockchain based on the reformatted data and the cryptographic key, the first additional block including data that indicates that the wallet of the shipper has possession of the goods and data that indicates that the shipper has booked space to ship the goods in the selected, particular wallet of the particular carrier;

storing, by the blockchain decentralized application, the first additional block in the blockchain;

receiving, by the blockchain decentralized application, an indication from the shipper that the particular carrier has taken possession of the goods;

in response to receiving the indication from the shipper that the particular carrier has taken possession of the goods, generating, by the blockchain decentralized application, a second additional block to add to the blockchain based on the reformatted data and the cryptographic key, the second additional block including data that indicates

that the wallet of the shipper is not in possession of the goods, and data that indicates that the selected, particular wallet of the particular carrier has possession of the goods;

storing, by the blockchain decentralized application, the second additional block in the blockchain, and

at any time before or after the goods are shipped, using, by the blockchain decentralized application, the blockchain to respond to third party shipping status queries about the goods.

18. The medium of claim 17, wherein the particular wallet for the particular carrier is selected without separately querying a resource controlled by the particular carrier to determine if space is available.