CLAIMS

What is claimed is:

1. A computer-implemented method, comprising:

publishing, as a published description, a description of target data stored in a trusted device of a data owner;

in response to the published description, receiving a data acquisition request from a data requestor for the target data wherein the data acquisition request is configured to retrieve the target data from a first resource;

sending the data acquisition request to the data owner;

receiving first confirmation information from the data owner;

identifying the target data from the trusted device based on the first confirmation information; and

sending the target data to the data requestor.

2. The computer-implemented method according to claim 1, wherein the trusted device is a pluggable device that comprises a trusted execution environment (TEE) isolated from an operating system.

3. The computer-implemented method according to claim 2, wherein that the target data is obtained by the trusted device from a terminal device of the data owner through an interface provided by the TEE.

4. The computer-implemented method according to claim 1, comprising:

receiving second confirmation information from the data requestor after sending the data acquisition request, wherein the second confirmation information indicates that the data requestor has received the target data; and

deleting the target data from the trusted device.

5. The computer-implemented method according to claim 1, comprising:

obtaining third confirmation information from the data requestor, wherein the third confirmation information indicates that the data requestor has received the target data;

storing a mapping relationship between the target data and the data requestor in a blockchain of a blockchain network; and

updating a usage record of the target data.

6. The computer-implemented method according to claim 5, comprising:

sending the mapping relationship between the target data and the data requestor to the trusted device for storage; and

sending the usage record of the target data to the trusted device to be stored by the trusted device.

7. The computer-implemented method according to claim 1, further comprising:

determining that fourth confirmation information from the data requestor is received, wherein the fourth confirmation information indicates that the data requestor has received the target data; and

in response to determining that the fourth confirmation information is received, sending the first resource to the data owner.

8. The computer-implemented method according to claim 1, comprising:

sending a private key of the data owner to the data requestor; and

encrypting the target data by using a public key of the data owner corresponding to the private key before sending the target data to the data requestor.

9. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform operations comprising:

publishing, as a published description, a description of target data stored in a trusted device of a data owner;

in response to the published description, receiving a data acquisition request from a data requestor for the target data wherein the data acquisition request is configured to retrieve the target data from a first resource;

sending the data acquisition request to the data owner;

receiving first confirmation information from the data owner;

identifying the target data from the trusted device based on the first confirmation information; and

sending the target data to the data requestor.

10. The non-transitory, computer-readable medium according to claim 9, wherein the trusted device is a pluggable device that comprises a trusted execution environment (TEE) isolated from an operating system.

11. The non-transitory, computer-readable medium according to claim 10, wherein that the target data is obtained by the trusted device from a terminal device of the data owner through an interface provided by the TEE.

12. The non-transitory, computer-readable medium according to claim 9, comprising:

receiving second confirmation information from the data requestor after sending the data acquisition request, wherein the second confirmation information indicates that the data requestor has received the target data; and

deleting the target data from the trusted device.

13. The non-transitory, computer-readable medium according to claim 9, comprising:

obtaining third confirmation information from the data requestor, wherein the third confirmation information indicates that the data requestor has received the target data;

storing a mapping relationship between the target data and the data requestor in a blockchain of a blockchain network; and

updating a usage record of the target data.

14. The non-transitory, computer-readable medium according to claim 13, comprising:

sending the mapping relationship between the target data and the data requestor to the trusted device for storage; and

sending the usage record of the target data to the trusted device to be stored by the trusted device.

15. The non-transitory, computer-readable medium according to claim 9, further comprising:

determining that fourth confirmation information from the data requestor is received, wherein the fourth confirmation information indicates that the data requestor has received the target data; and

in response to determining that the fourth confirmation information is received, sending the first resource to the data owner.

16. The non-transitory, computer-readable medium according to claim 9, comprising:

sending a private key of the data owner to the data requestor; and

encrypting the target data by using a public key of the data owner corresponding to the private key before sending the target data to the data requestor.

17. A computer-implemented system, comprising:

one or more computers; and

one or more computer memory devices interoperably coupled with the one or more computers and having tangible, non-transitory, machine-readable media storing one or more instructions that, when executed by the one or more computers, perform one or more operations comprising:

publishing, as a published description, a description of target data stored in a trusted device of a data owner;

in response to the published description, receiving a data acquisition request from a data requestor for the target data wherein the data acquisition request is configured to retrieve the target data from a first resource;

sending the data acquisition request to the data owner;

receiving first confirmation information from the data owner;

identifying the target data from the trusted device based on the first confirmation information; and

sending the target data to the data requestor.

18. The computer-implemented system according to claim 17, wherein the trusted device is a pluggable device that comprises a trusted execution environment (TEE) isolated from an operating system.

19. The computer-implemented system according to claim 18, wherein that the target data is obtained by the trusted device from a terminal device of the data owner through an interface provided by the TEE.

20. The computer-implemented system according to claim 17, comprising:

receiving second confirmation information from the data requestor after sending the data acquisition request, wherein the second confirmation information indicates that the data requestor has received the target data; and

deleting the target data from the trusted device.