

CLAIMS

[Claim 1]

An electronic commerce approval system for approving a given electronic commerce transaction based on a crypto-asset when the electronic commerce is

5 executed between a supplier and a client, the system comprising:

a management unit for managing activity location and scope information which is information registered in advance in a storage unit and which indicates a location or scope of an activity, serving as a reference for an activity of each user who is a supplier or a client;

10 an identifying unit for identifying a transaction target party based on transaction party information relating to at least one of the supplier and the client, the transaction party information being transmitted from a server when the electronic commerce transaction between the supplier and the client is executed by the server;

an approval processing unit for executing an approval process of approving the
15 electronic commerce transaction between the identified supplier and the client;

a providing unit that provides the result of the approval process to the server,
wherein

the management unit executes:

a current location acquisition process for acquiring current location
20 information indicating a current location of the user at a given timing or at each predetermined timing; and

an activity range determination process, before the electronic commerce transaction is executed, for comparing the acquired current location information with the registered activity location and scope information of the relevant
25 user in order to determine authenticity of the activity range of each user, and

the approval processing unit

determines, as the approval process, whether the electronic commerce transaction is approved based on a result of the activity range determination process; and

5 rejects approval of the target electronic commerce transaction when at least one of the supplier and the client is the user whose activity range is determined as not authentic by the activity range determination process.

[Claim 2]

10 The electronic commerce approval system according to claim 1, wherein the current location information includes timing information indicating a timing at which the current location information is acquired.

[Claim 3]

15 The electronic commerce approval system according to claim 1 or 2, wherein: the server registers the information relating to the electronic commerce as electronic commerce information in a plurality of databases in a distributed manner; and the electronic commerce information is formed by block information which is generated by blockifying based on a plurality of pieces of commercial transaction information including the electronic commercial transaction information and a hash value determined from past commercial transaction information when the electronic commerce transaction is approved.

20

[Claim 4]

25 An approval method of electronic commerce for approving a given electronic commerce transaction based on a crypto-asset when the electronic commerce transaction is executed between a supplier and a client, the approval method comprising:

managing activity location and scope information which is information registered in advance in a storage unit and which indicates a location or scope of an activity, serving as a reference for an activity of each user who is a supplier or a client;

identifying a transaction party based on transaction party information relating
5 to at least one of the supplier and the client, the transaction party information being transmitted from a server when the electronic commerce transaction between the supplier and the client is executed by the server;

executing an approval process of approving the electronic commerce transaction between the identified supplier and the client;

10 providing the result of the approval process to the server; and
executing:

a current location acquisition process for acquiring current location information indicating a current location of the user at a given timing or at each predetermined timing; and

15 an activity range determination process, before the electronic commerce transaction is executed, for comparing the acquired current location information with the registered activity location and scope information of the relevant user in order to determine authenticity of the activity range of each user, wherein
the approval process is executed for determining whether the electronic
20 commerce transaction is approved based on a result of the activity range determination process, and for rejecting approval of the target electronic commerce transaction when at least one of the supplier and the client is the user whose activity range is determined as not authentic by the activity range determination process.

25 [Claim 5]

An electronic commerce management system for managing an electronic commerce transaction when the electronic commerce transaction is executed between a

supplier and a client based on a crypto-asset, the electronic commerce management system comprising:

a management unit for managing user-related information that indicates information relating to the user and is registered in advance in a storage unit, the user-
5 related information including activity location and scope information that indicates information of a location or scope of an activity, serving as a reference for an activity of user who is a transaction target of at least one of the supplier and the client;

a transaction processing unit for executing, as transaction process, process relating to the electronic commerce transaction by the supplier and the client;

10 an approval processing unit for executing an approval process of approving the electronic commerce transaction; and

a registration unit for registering the electronic commerce information of the approved electronic commerce transaction in a plurality of databases in a distributed manner, wherein

15 the management unit executes:

a current location acquisition process for acquiring current location information indicating a current location of the user at a given timing or at each predetermined timing; and

20 an activity range determination process, before the electronic commerce transaction is executed, for comparing the acquired current location information with the registered activity location and scope information of the relevant user in order to determine authenticity of the activity range of each user, and

the approval processing unit determines, the approval process,

25 whether the electronic commerce transaction is approved based on a result of the activity range determination process, and

rejects approval of the target electronic commerce transaction when at least one of the supplier and the client is the user whose activity range is determined as not authentic by the activity range determination process.

5 [Claim 6]

A method of electronic commerce for executing a given electronic commerce transaction based on a crypto-asset when the electronic commerce transaction is executed between a supplier and a client, the method comprising:

10 managing user-related information that indicates information relating to the user and is registered in advance in a storage unit, the user-related information including activity location and scope information that indicates information of a location or scope of an activity, serving as a reference for an activity of user who is a transaction target of at least one of the supplier and the client;

15 executing, as transaction process, process relating to the electronic commerce transaction by the supplier and the client;

executing an approval process of approving the electronic commerce transaction; and
registering the electronic commerce information of the approved electronic commerce transaction in a plurality of databases in a distributed manner; and

20 executing:

current location acquisition process for acquiring current location information indicating a current location of the user at a given timing or at each predetermined timing; and

25 an activity range determination process, before the electronic commerce transaction is executed, for comparing the acquired current location information with the registered activity location and scope information of the relevant user in order to determine authenticity of the activity range of each user, wherein

the approval process is executed for determining whether the electronic commerce transaction is approved based on a result of the activity range determination process, and for rejecting approval of the target electronic commerce transaction when at least one of the supplier and the client is the user whose

5 activity range is determined as not authentic by the activity range determination process.