CLAIMS

Claim 1. An information processing system comprising: an upper NW device being a device constituting an overlay network; and a lower NW device being a device constituting an underlay network,

wherein the upper NW device includes

a blocker that blocks unauthorized communication notification of which is provided from the lower NW device based on information regarding unauthorized communication, and

the lower NW device includes:

an acquirer that acquires information related to communication of a terminal connected to the lower NW device;

a detector that detects unauthorized communication based on information related to communication of a terminal connected to the lower NW device, acquired by the acquirer; and

a notifier that notifies the upper NW device of the information regarding the unauthorized communication detected by the detector.

Claim 2. The information processing system according to claim 1,

wherein the detector detects unauthorized communication by performing matching between the information related to communication of the terminal connected to the lower NW device, acquired by the acquirer and the information related to unauthorized communication stored in a storage module.

Claim 3. The information processing system according to claim 1,

wherein the blocker blocks communication of the unauthorized communication notification of which is provided by the lower NW device to a communication destination by using the information regarding the unauthorized communication.

Claim 4. An information processing method to be executed by an upper NW device being a device constituting an overlay network, and a lower NW device being a device constituting an underlay network, the information processing method comprising:

an acquisition process of acquiring, by the lower NW device, information related to communication of a terminal connected to the lower NW device;

a detection step of detecting, by the lower NW device, unauthorized communication based on the information related to the communication of the terminal connected to the lower NW device acquired by the acquisition process;

a notification process of notifying, by the lower NW device, the upper NW device of the information regarding the unauthorized communication detected by the detection process; and

a blocking process of blocking, by the upper NW device, the unauthorized communication notification of which is provided from the lower NW device based on the information regarding the unauthorized communication.

Claim 5. A computer-readable recording medium storing therein an information processing program causing a computer functioning as an upper NW device being a device constituting an overlay network, and a computer functioning as a lower NW device being a device constituting an underlay network to execute a process comprising:

the information processing program causing the

computer functioning as the upper NW device to execute:

a blocking step of blocking unauthorized communication notification of which is provided from the lower NW device based on information related to the unauthorized communication,

the information processing program causing the computer functioning as the lower NW device to execute:

an acquisition step of acquiring information related to communication of a terminal connected to the lower NW device;

a detection step of detecting the unauthorized communication based on the information related to the communication of the terminal connected to the lower NW device, acquired by the acquisition step; and

a notification step of notifying the upper NW device of information regarding the unauthorized communication detected by the detection step.