based on the retransmission status.

6. The first communication apparatus according to any of claims 1 to 5, wherein

the first communication apparatus is connected to one or more information processing apparatuses; and

the transmission control unit transmits a packet including information transmitted by the information processing apparatuses, according to the transmission bandwidth.

7. The first communication apparatus according to claim 5, wherein

the discard bandwidth is obtained by summing discarded segments from the discard status.

8. The first communication apparatus according to claim 1, wherein

the bandwidth control unit further controls the transmission bandwidth, based on a connection number of packets received from the network.

9. The first communication apparatus according to claim 1, wherein

the bandwidth control unit measures a packet retransmitting connection number, and controls the transmission bandwidth, based on the packet retransmitting connection number.

10. A communication system comprising a first communication apparatus and a second communication apparatus to be connected to the first communication apparatus via a network, wherein

the first communication apparatus comprises:

a bandwidth control unit for, with respect to each interval, managing bandwidth relating to a packet to be transmitted from the first communication apparatus via the network to a second communication apparatus, and controlling bandwidth to send a packet in a later interval than a present interval, based on the managed bandwidth in the present interval and bandwidth in a past interval; and

a transmission unit for sending a packet to the network, according to the controlled bandwidth.

11. The communication system according to claim ~~19~~, wherein

the bandwidth control unit reduces, in a case where retransmission of a packet has

based on the retransmission status.

6. The first communication apparatus according to any of claims 1 to 5, wherein

the first communication apparatus is connected to one or more information processing apparatuses; and

the transmission control unit transmits a packet including information transmitted by the information processing apparatuses, according to the transmission bandwidth.

7. The first communication apparatus according to claim 5, wherein

the discard bandwidth is obtained by summing discarded segments from the discard status.

8. The first communication apparatus according to claim 1, wherein

the bandwidth control unit further controls the transmission bandwidth, based on a connection number of packets received from the network.

9. The first communication apparatus according to claim 1, wherein

the bandwidth control unit measures a packet retransmitting connection number, and controls the transmission bandwidth, based on the packet retransmitting connection number.

10. A communication system comprising a first communication apparatus and a second communication apparatus to be connected to the first communication apparatus via a network, wherein

the first communication apparatus comprises:

a bandwidth control unit for, with respect to each interval, managing bandwidth relating to a packet to be transmitted from the first communication apparatus via the network to a second communication apparatus, and controlling bandwidth to send a packet in a later interval than a present interval, based on the managed bandwidth in the present interval and bandwidth in a past interval; and

a transmission unit for sending a packet to the network, according to the controlled bandwidth.

11. The communication system according to claim 10, wherein

the bandwidth control unit reduces, in a case where retransmission of a packet has