

FIG. 1

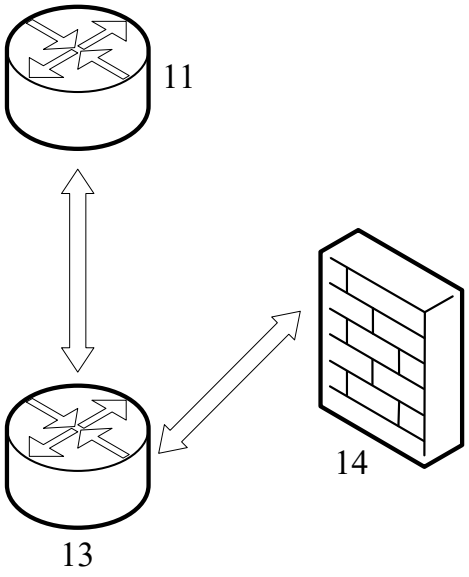

FIG. 2

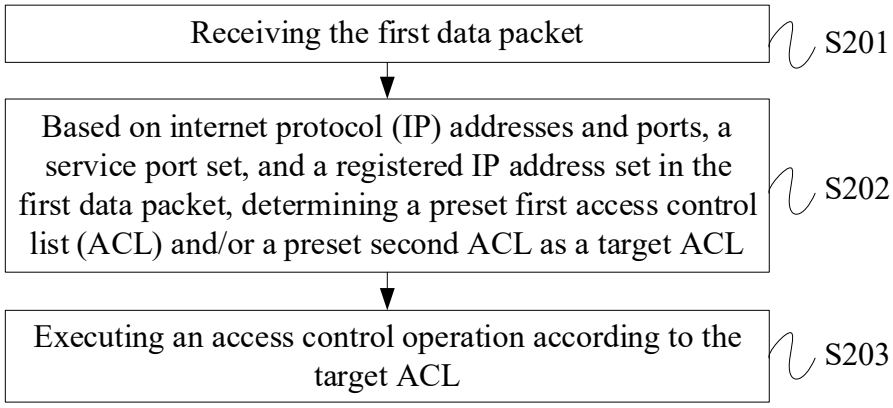

FIG. 3

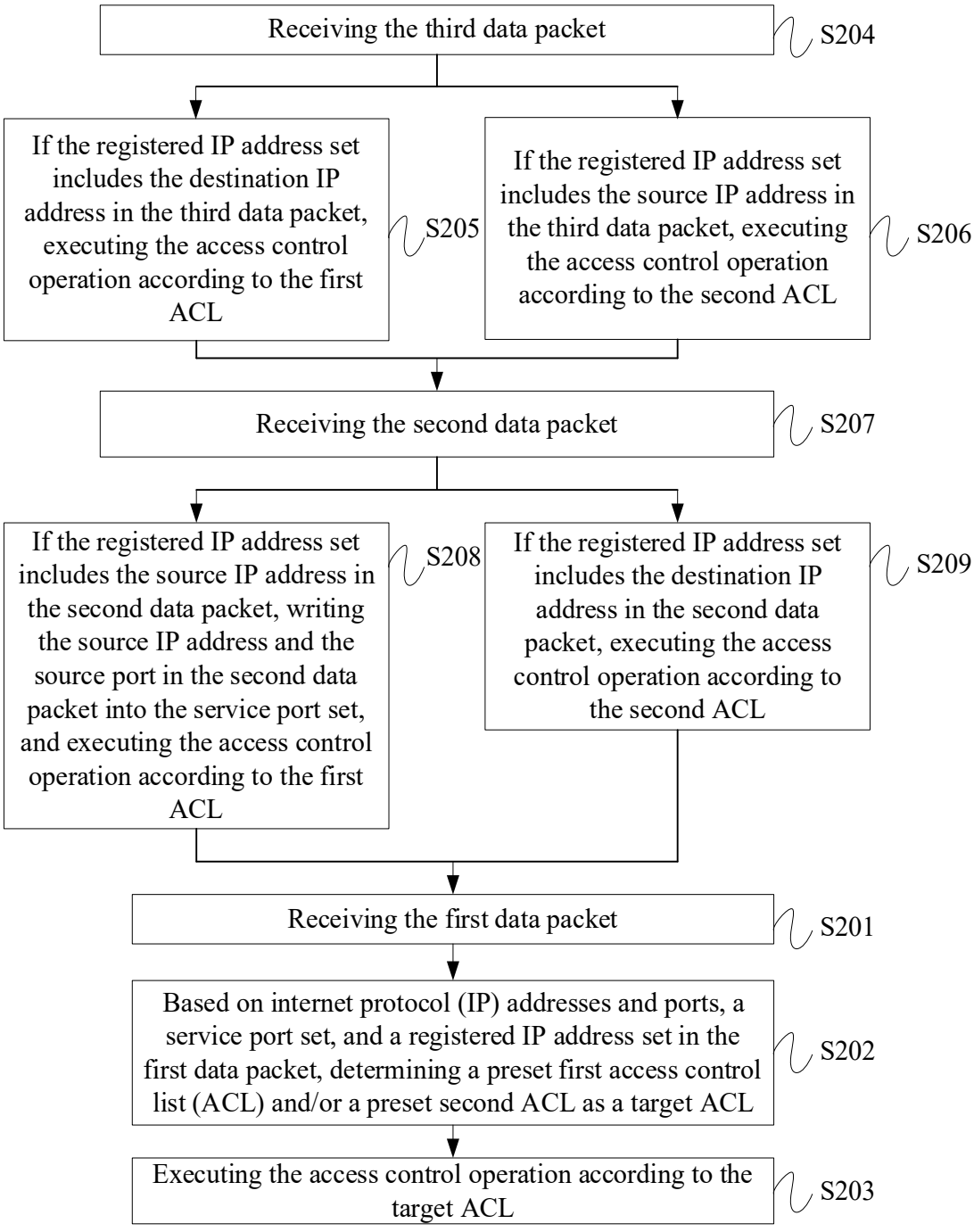
Receiving the third data packet
S204
If the registered IP address set includes the destination IP address in the third data packet, executing the access control operation according to the first ACL
S205
If the registered IP address set includes the source IP address in the third data packet, executing the access control operation according to the second ACL
S206
Receiving the second data packet
S207
If the registered IP address set includes the source IP address in the second data packet, writing the source IP address and the source port in the second data packet into the service port set, and executing the access control operation according to the first ACL
S208
If the registered IP address set includes the destination IP address in the second data packet, executing the access control operation according to the second ACL
S209
Receiving the first data packet
S201
Based on internet protocol (IP) addresses and ports, a service port set, and a registered IP address set in the first data packet, determining a preset first access control list (ACL) and/or a preset second ACL as a target ACL
S202
Executing the access control operation according to the target ACL
S203

FIG. 4

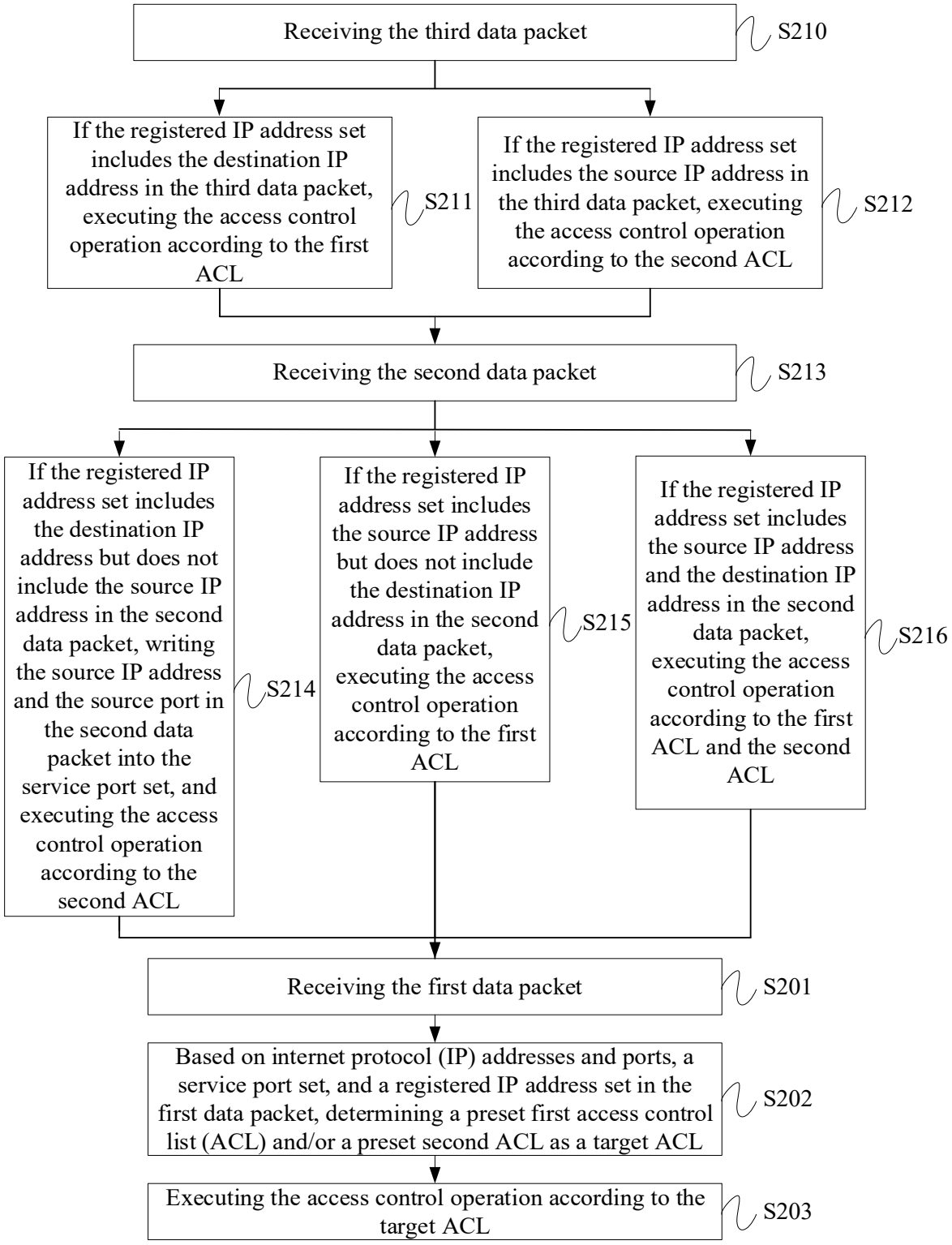
Receiving the third data packet
S210
If the registered IP address set includes the destination IP address in the third data packet, executing the access control operation according to the first ACL
S211
If the registered IP address set includes the source IP address in the third data packet, executing the access control operation according to the second ACL
S212
Receiving the second data packet
S213
If the registered IP address set includes the destination IP address but does not include the source IP address in the second data packet, writing the source IP address and the source port in the second data packet into the service port set, and executing the access control operation according to the second ACL
S214
If the registered IP address set includes the source IP address but does not include the destination IP address in the second data packet, executing the access control operation according to the first ACL
S215
If the registered IP address set includes the source IP address and the destination IP address in the second data packet, executing the access control operation according to the first ACL and the second ACL
S216
Receiving the first data packet
S201
Based on internet protocol (IP) addresses and ports, a service port set, and a registered IP address set in the first data packet, determining a preset first access control list (ACL) and/or a preset second ACL as a target ACL
S202
Executing the access control operation according to the target ACL
S203

FIG. 5

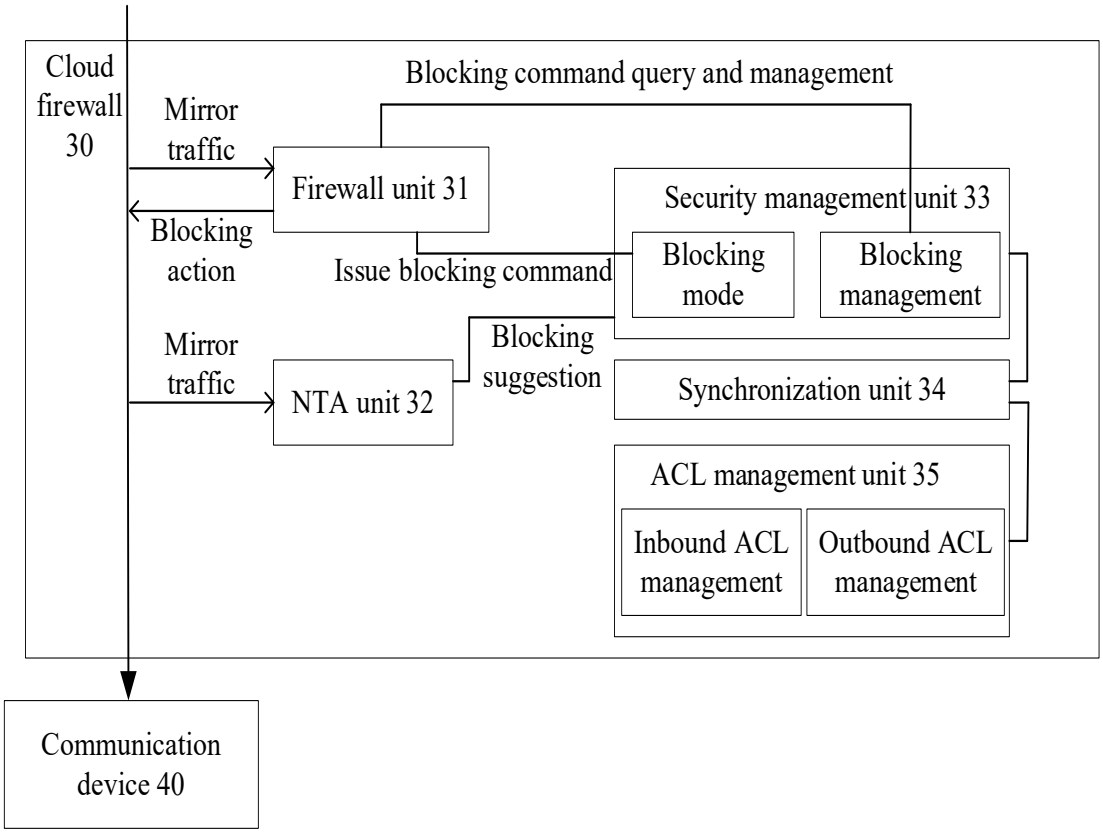
Cloud firewall 30
Blocking command query and management
Mirror traffic
Firewall unit 31
Blocking action
Security management unit 33
Blocking mode
Blocking management
Issue blocking command
Mirror traffic
NTA unit 32
Blocking suggestion
Synchronization unit 34
ACL management unit 35
Inbound ACL management
Outbound ACL management
Communication device 40

FIG. 6

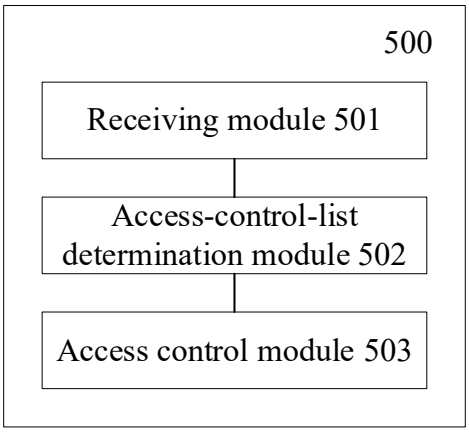
500
Receiving module 501
Access-control-list determination module 502
Access control module 503

FIG. 7

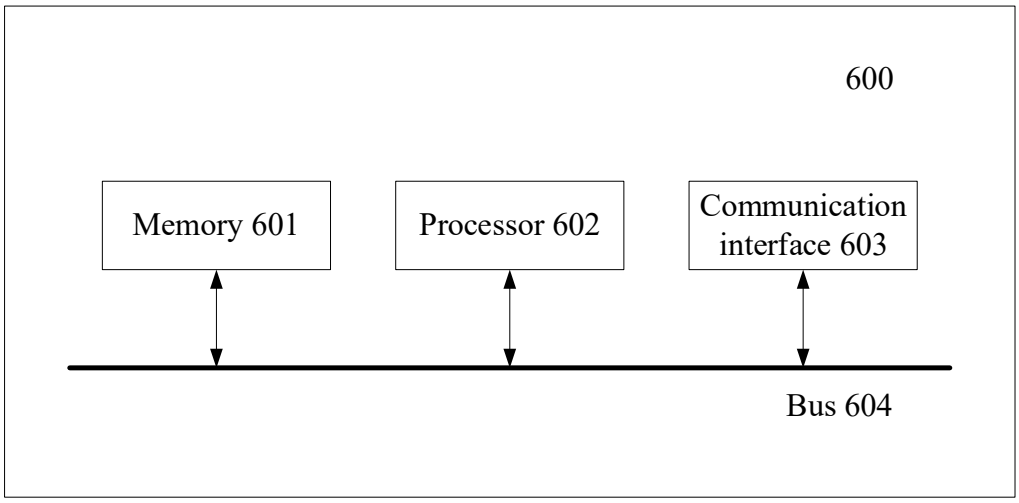
600
Memory 601
Processor 602
Communication interface 603
Bus 604

FIG. 8