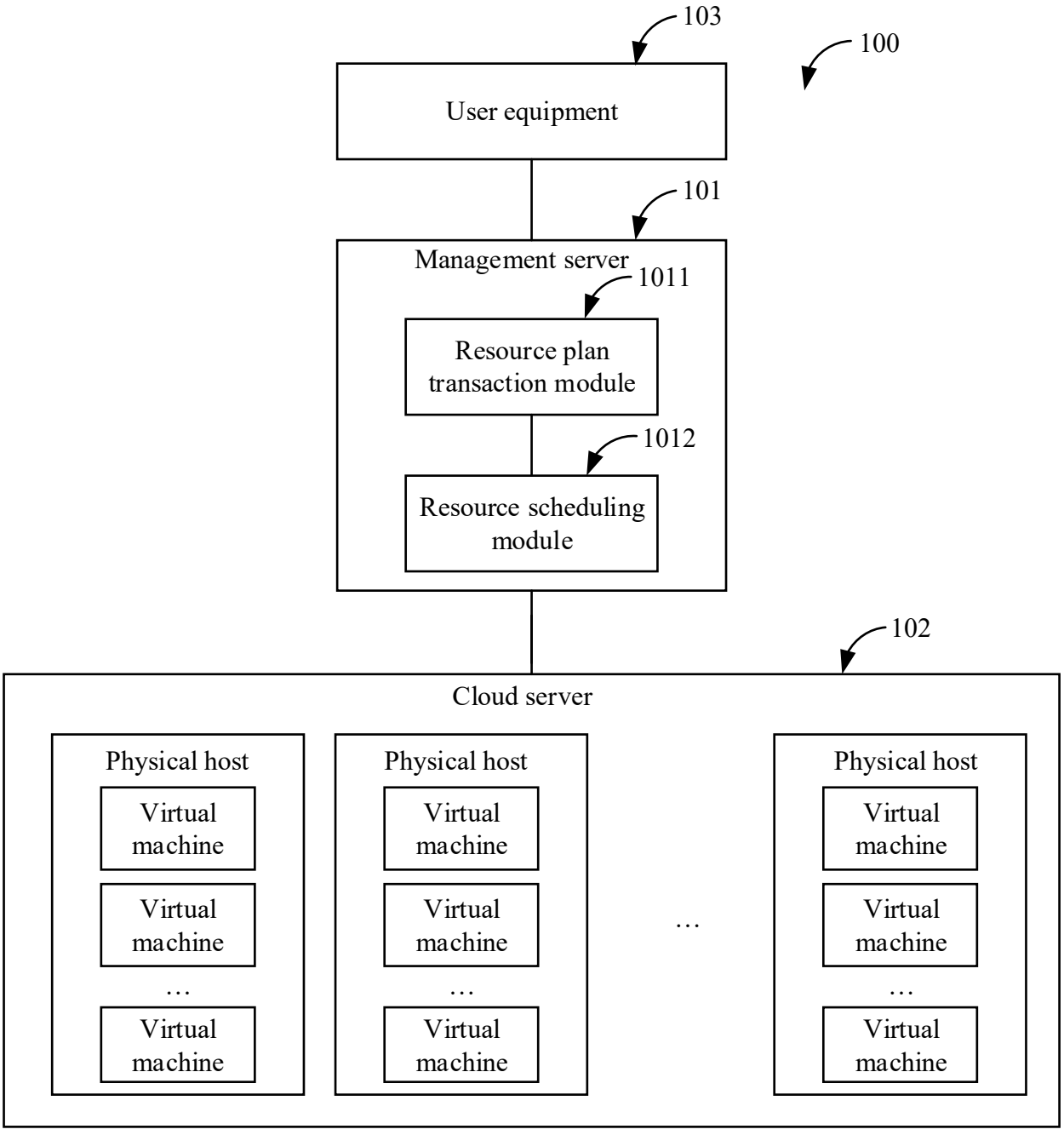

103
100
User equipment
101
Management server
1011
Resource plan transaction module
1012
Resource scheduling module
102
Cloud server
Physical host
Virtual machine
Virtual machine
…
Virtual machine
Physical host
Virtual machine
Virtual machine
…
Virtual machine
…
Physical host
Virtual machine
Virtual machine
…
Virtual machine

FIG. 1

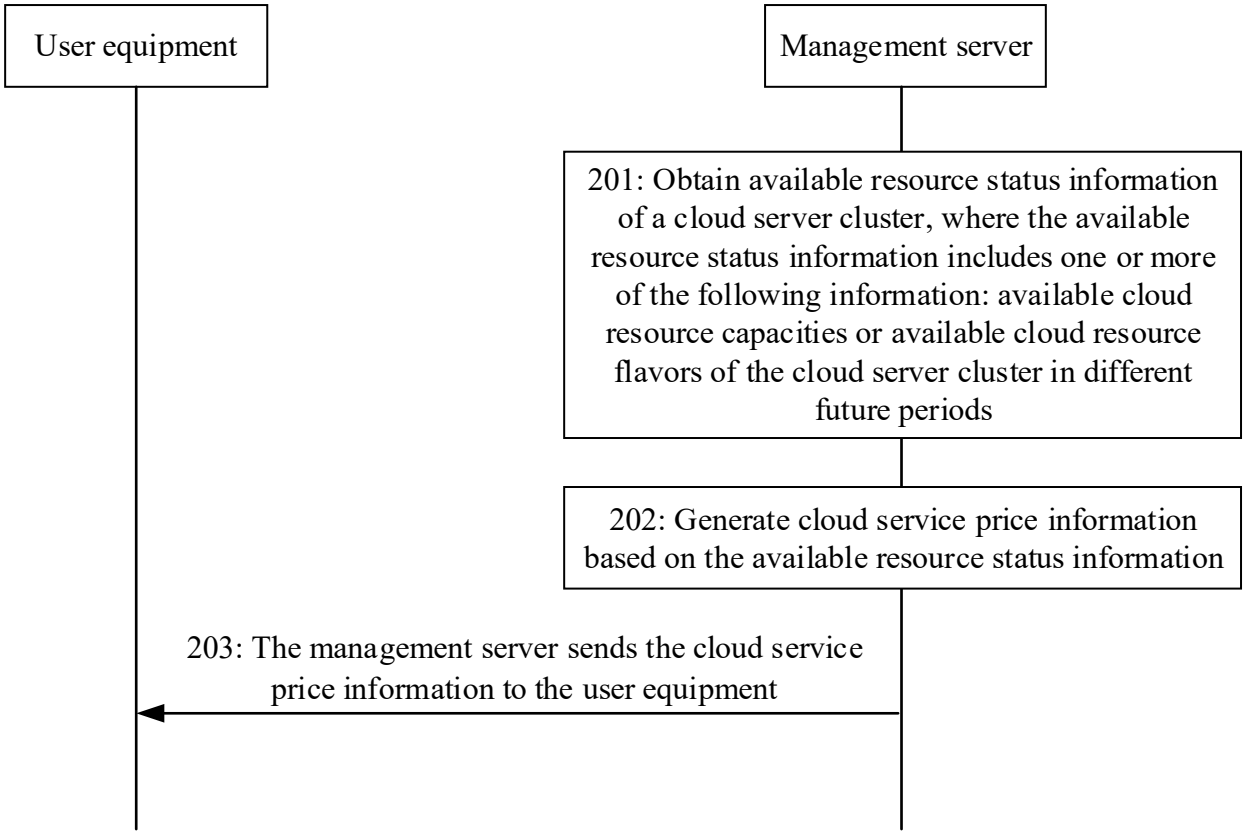

User equipment
Management server
201: Obtain available resource status information of a cloud server cluster, where the available resource status information includes one or more of the following information: available cloud resource capacities or available cloud resource flavors of the cloud server cluster in different future periods
202: Generate cloud service price information based on the available resource status information
203: The management server sends the cloud service price information to the user equipment

FIG. 2

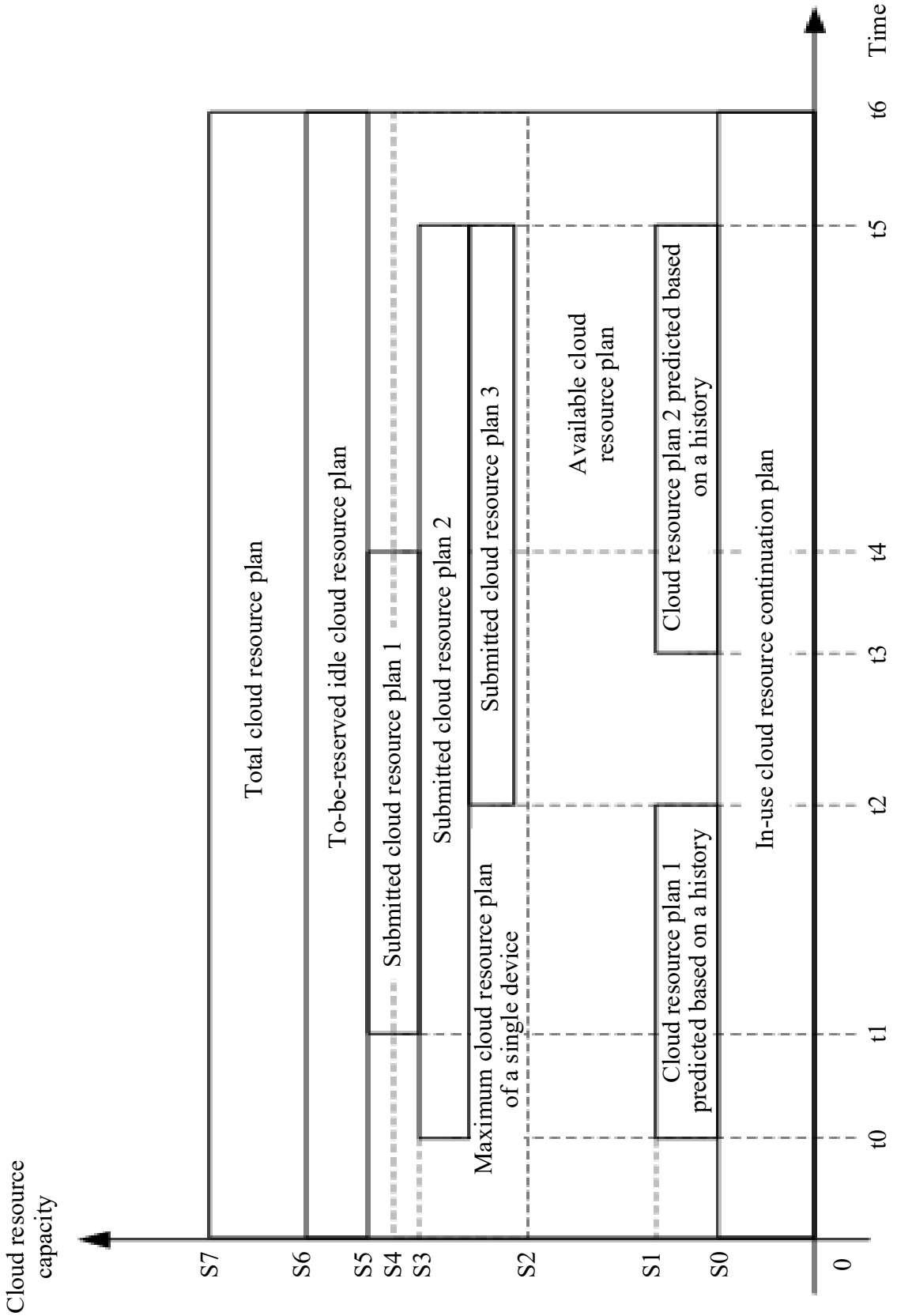

Cloud resource capacity
Time
0
S0
S1
S2
S3
S4
S5
S6
S7
t0
t1
t2
t3
t4
t5
t6
Total cloud resource plan
To-be-reserved idle cloud resource plan
Submitted cloud resource plan 1
Submitted cloud resource plan 2
Submitted cloud resource plan 3
Maximum cloud resource plan of a single device
Available cloud resource plan
Cloud resource plan 1 predicted based on a history
Cloud resource plan 2 predicted based on a history
In-use cloud resource continuation plan

FIG. 3

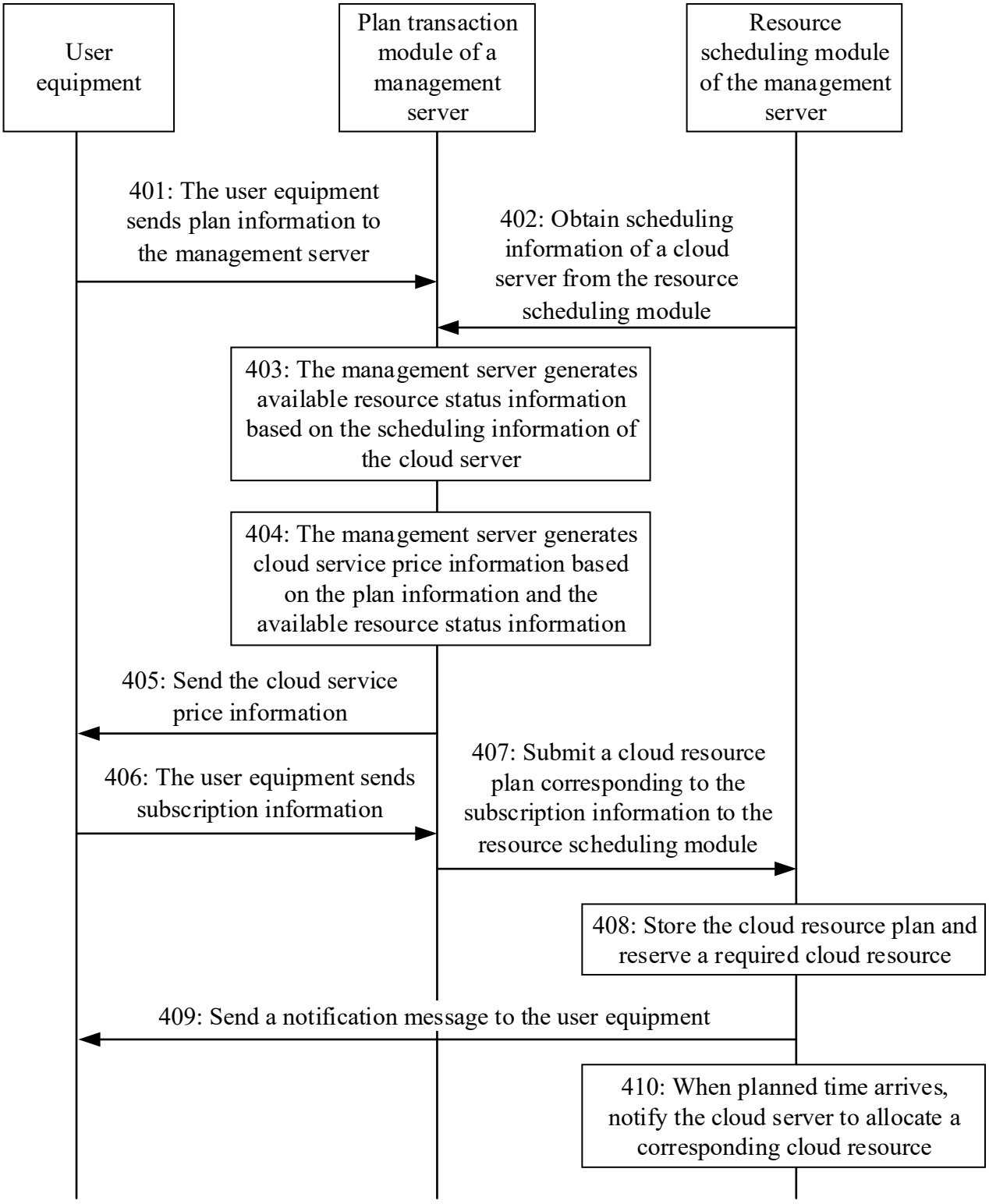

User equipment
Plan transaction module of a management server
Resource scheduling module of the management server
401: The user equipment sends plan information to the management server
402: Obtain scheduling information of a cloud server from the resource scheduling module
403: The management server generates available resource status information based on the scheduling information of the cloud server
404: The management server generates cloud service price information based on the plan information and the available resource status information
405: Send the cloud service price information
406: The user equipment sends subscription information
407: Submit a cloud resource plan corresponding to the subscription information to the resource scheduling module
408: Store the cloud resource plan and reserve a required cloud resource
409: Send a notification message to the user equipment
410: When planned time arrives, notify the cloud server to allocate a corresponding cloud resource

FIG. 4a

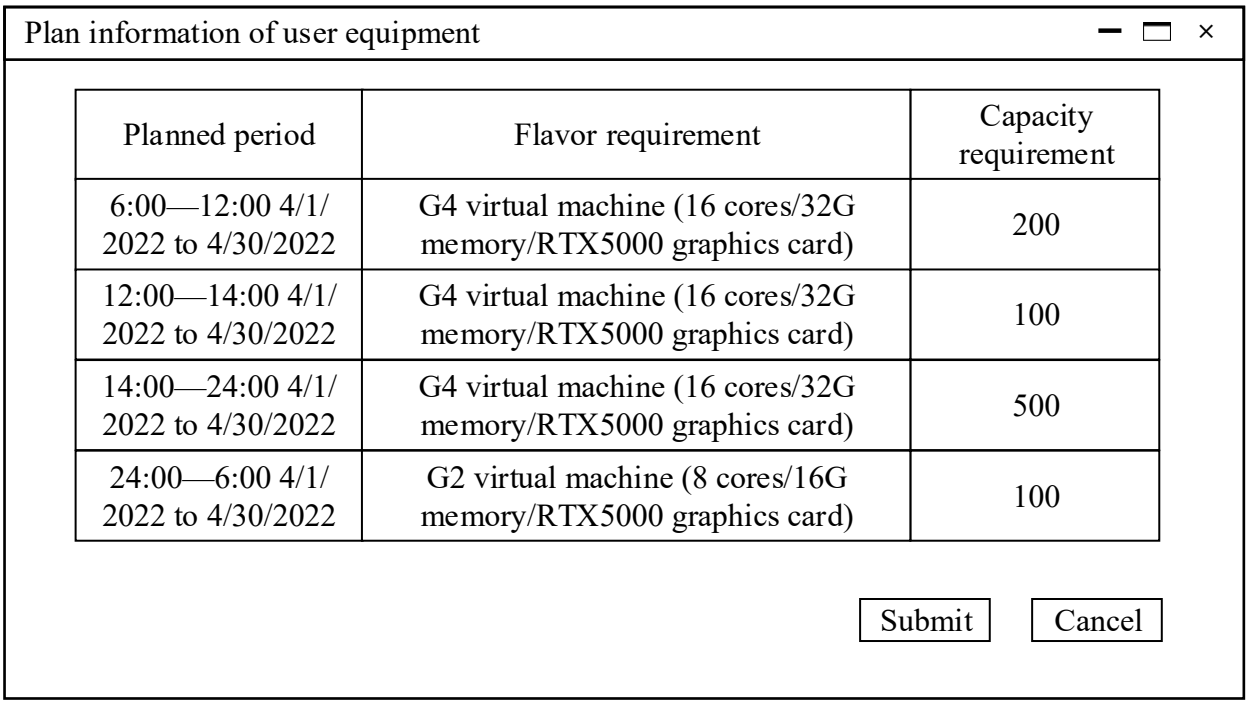

Plan information of user equipment
Planned period
Flavor requirement
Capacity requirement
6:00—12:00 4/1/2022 to 4/30/2022
G4 virtual machine (16 cores/32G memory/RTX5000 graphics card)
200
12:00—14:00 4/1/2022 to 4/30/2022
G4 virtual machine (16 cores/32G memory/RTX5000 graphics card)
100
14:00—24:00 4/1/2022 to 4/30/2022
G4 virtual machine (16 cores/32G memory/RTX5000 graphics card)
500
24:00—6:00 4/1/2022 to 4/30/2022
G2 virtual machine (8 cores/16G memory/RTX5000 graphics card)
100
Submit
Cancel

FIG. 4b

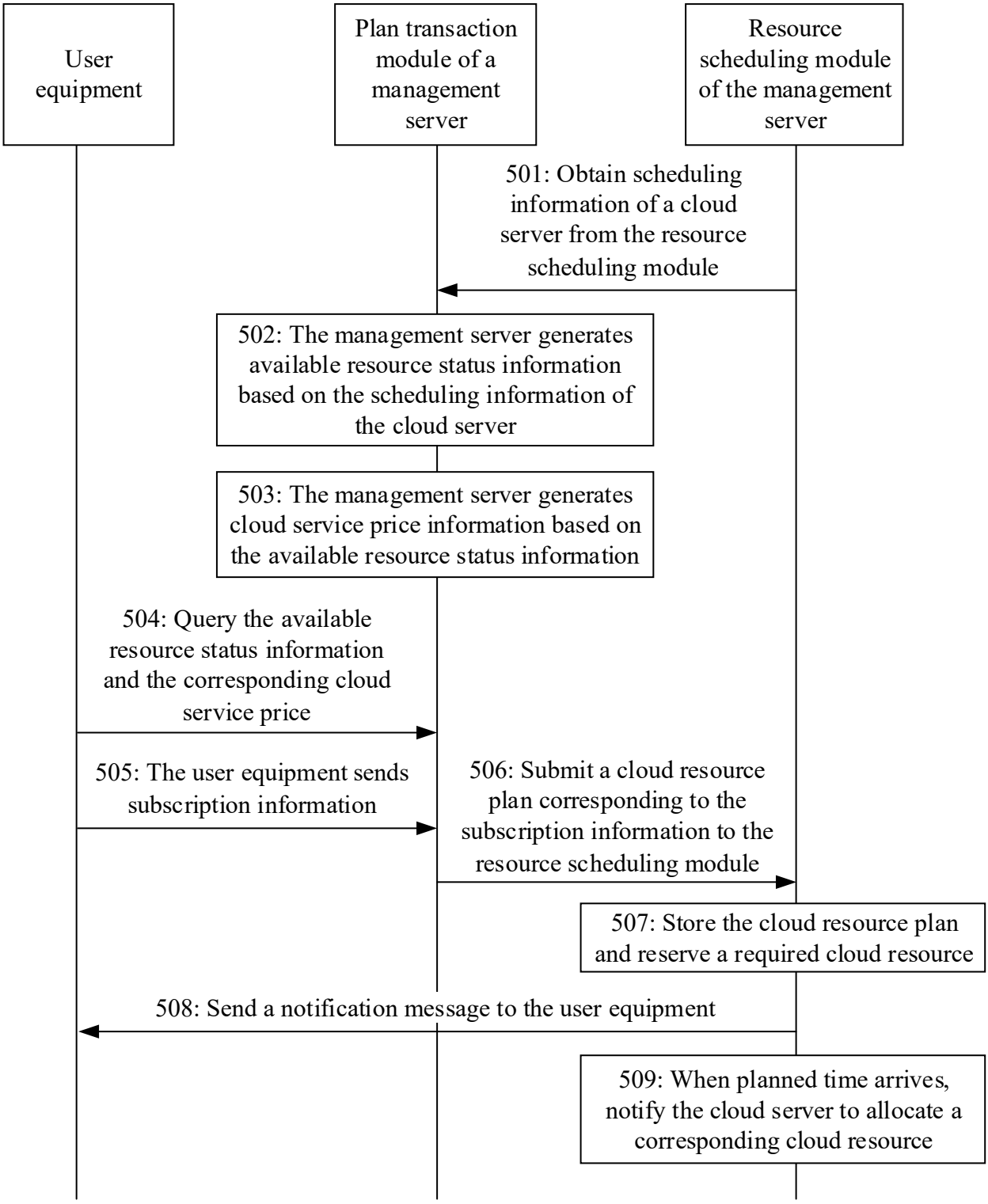

User equipment
Plan transaction module of a management server
Resource scheduling module of the management server
501: Obtain scheduling information of a cloud server from the resource scheduling module
502: The management server generates available resource status information based on the scheduling information of the cloud server
503: The management server generates cloud service price information based on the available resource status information
504: Query the available resource status information and the corresponding cloud service price
505: The user equipment sends subscription information
506: Submit a cloud resource plan corresponding to the subscription information to the resource scheduling module
507: Store the cloud resource plan and reserve a required cloud resource
508: Send a notification message to the user equipment
509: When planned time arrives, notify the cloud server to allocate a corresponding cloud resource

FIG. 5

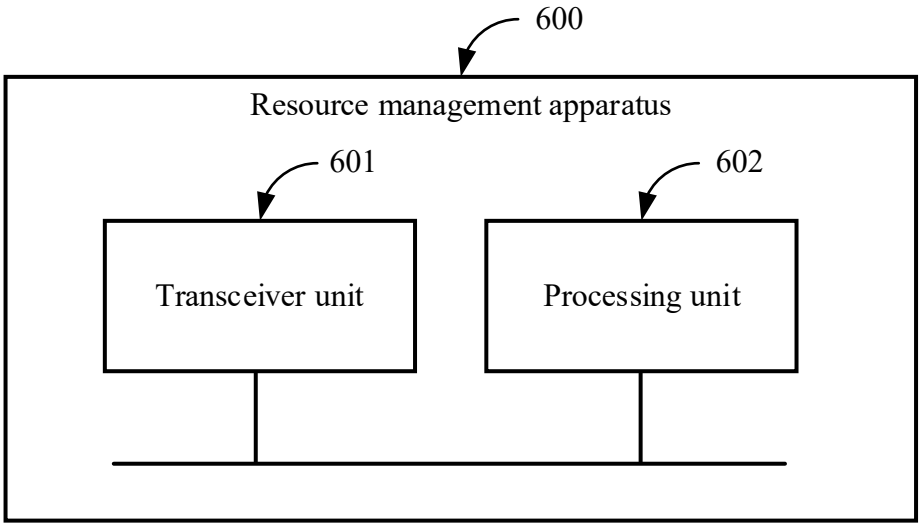

600
Resource management apparatus
601
602
Transceiver unit
Processing unit

FIG. 6

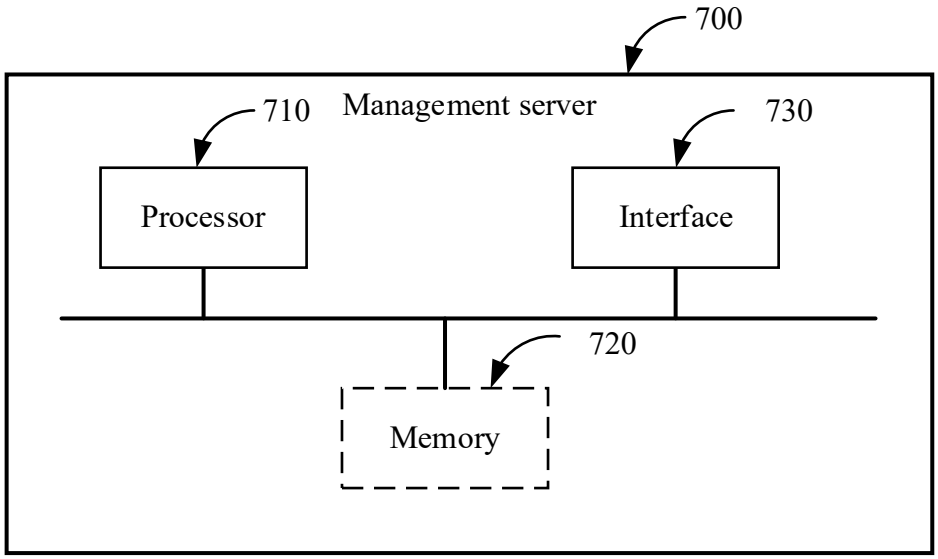

700
710
Management server
730
Processor
Interface
720
Memory

FIG. 7