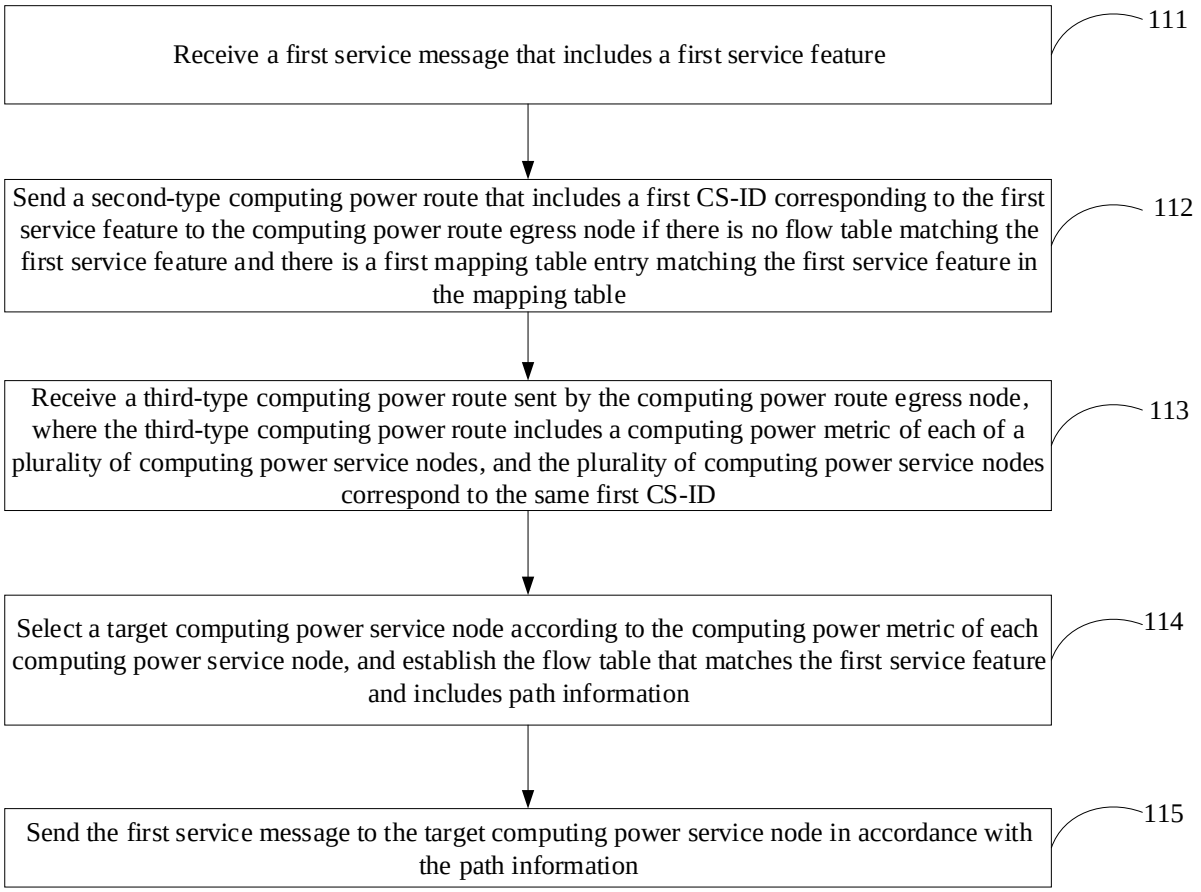

Receive a first service message that includes a first service feature
111
Send a second-type computing power route that includes a first CS-ID corresponding to the first service feature to the computing power route egress node if there is no flow table matching the first service feature and there is a first mapping table entry matching the first service feature in the mapping table
112
Receive a third-type computing power route sent by the computing power route egress node, where the third-type computing power route includes a computing power metric of each of a plurality of computing power service nodes, and the plurality of computing power service nodes correspond to the same first CS-ID
113
Select a target computing power service node according to the computing power metric of each computing power service node, and establish the flow table that matches the first service feature and includes path information
114
Send the first service message to the target computing power service node in accordance with the path information
115

FIG. 1A

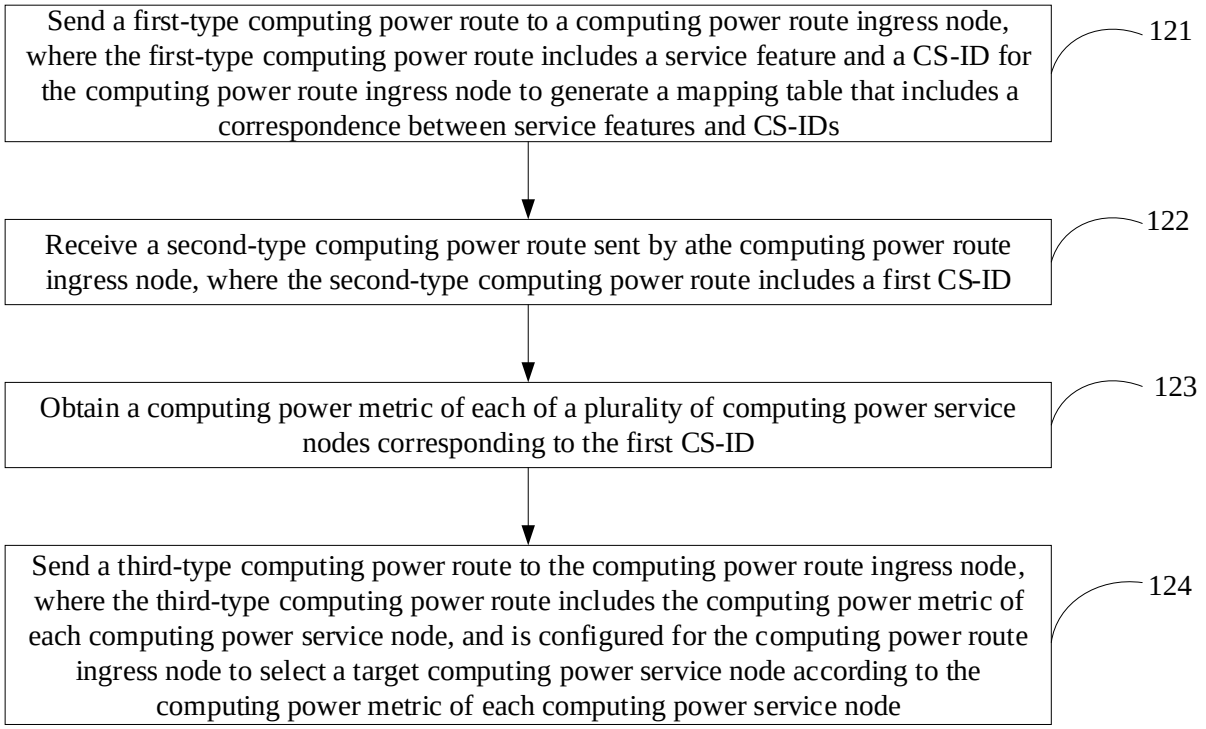

Send a first-type computing power route to a computing power route ingress node, where the first-type computing power route includes a service feature and a CS-ID for the computing power route ingress node to generate a mapping table that includes a correspondence between service features and CS-IDs
121
Receive a second-type computing power route sent by athe computing power route ingress node, where the second-type computing power route includes a first CS-ID
122
Obtain a computing power metric of each of a plurality of computing power service nodes corresponding to the first CS-ID
123
Send a third-type computing power route to the computing power route ingress node, where the third-type computing power route includes the computing power metric of each computing power service node, and is configured for the computing power route ingress node to select a target computing power service node according to the computing power metric of each computing power service node
124

FIG. 1B

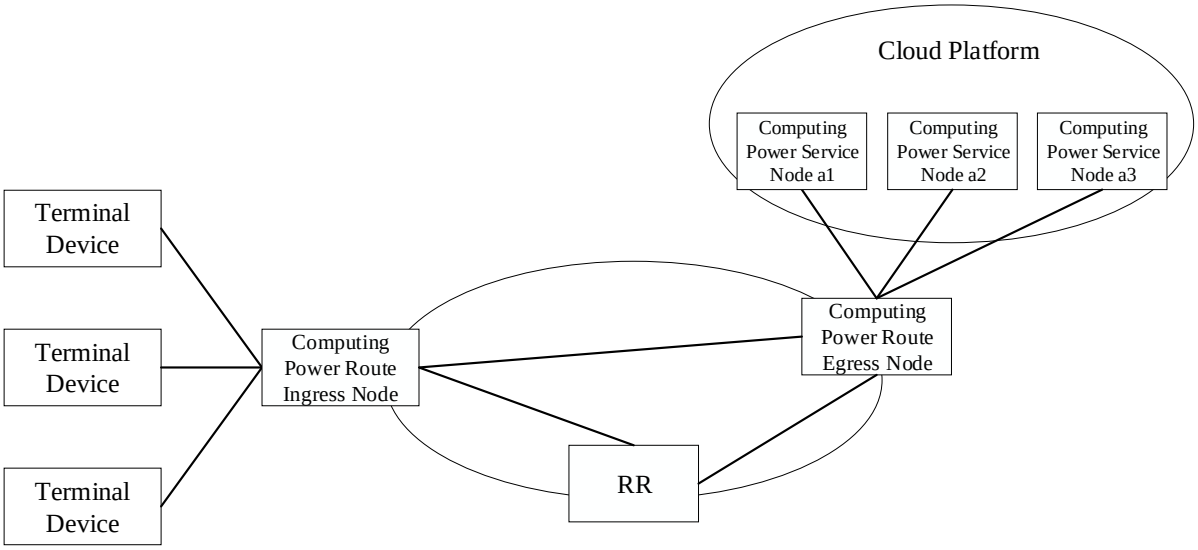

Cloud Platform
Computing Power Service Node a1
Computing Power Service Node a2
Computing Power Service Node a3
Terminal Device
Terminal Device
Terminal Device
Computing Power Route Ingress Node
Computing Power Route Egress Node
RR

FIG. 2

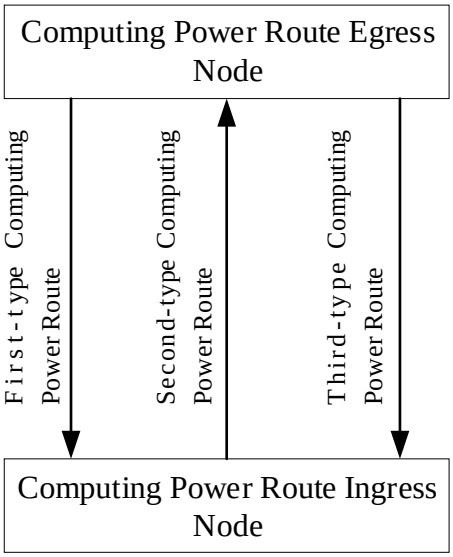

Computing Power Route Egress Node
First-type Computing Power Route
Second-type Computing Power Route
Third-type Computing Power Route
Computing Power Route Ingress Node

FIG. 3

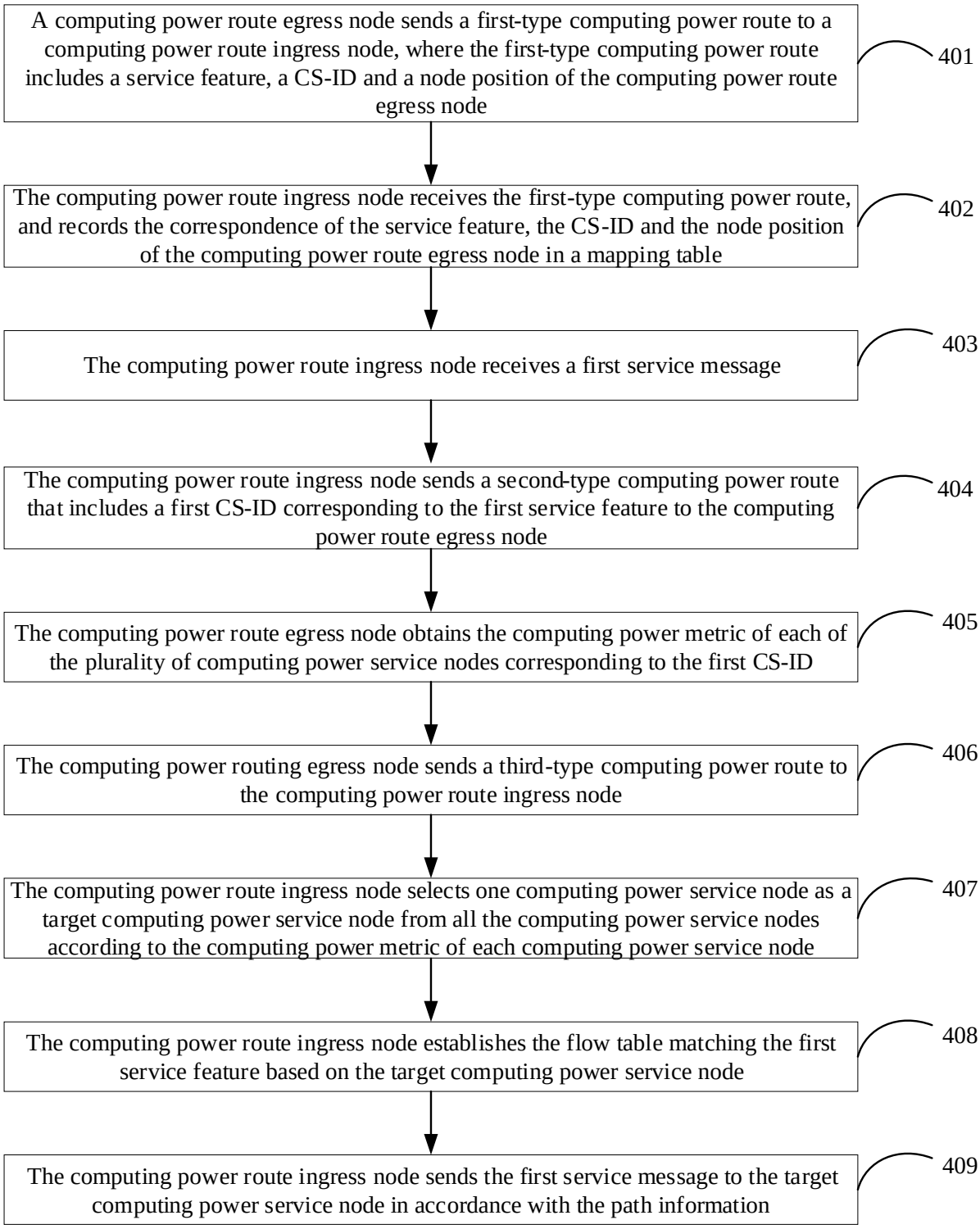

A computing power route egress node sends a first-type computing power route to a computing power route ingress node, where the first-type computing power route includes a service feature, a CS-ID and a node position of the computing power route egress node
401
The computing power route ingress node receives the first-type computing power route, and records the correspondence of the service feature, the CS-ID and the node position of the computing power route egress node in a mapping table
402
The computing power route ingress node receives a first service message
403
The computing power route ingress node sends a second-type computing power route that includes a first CS-ID corresponding to the first service feature to the computing power route egress node
404
The computing power route egress node obtains the computing power metric of each of the plurality of computing power service nodes corresponding to the first CS-ID
405
The computing power routing egress node sends a third-type computing power route to the computing power route ingress node
406
The computing power route ingress node selects one computing power service node as a target computing power service node from all the computing power service nodes according to the computing power metric of each computing power service node
407
The computing power route ingress node establishes the flow table matching the first service feature based on the target computing power service node
408
The computing power route ingress node sends the first service message to the target computing power service node in accordance with the path information
409

FIG. 4

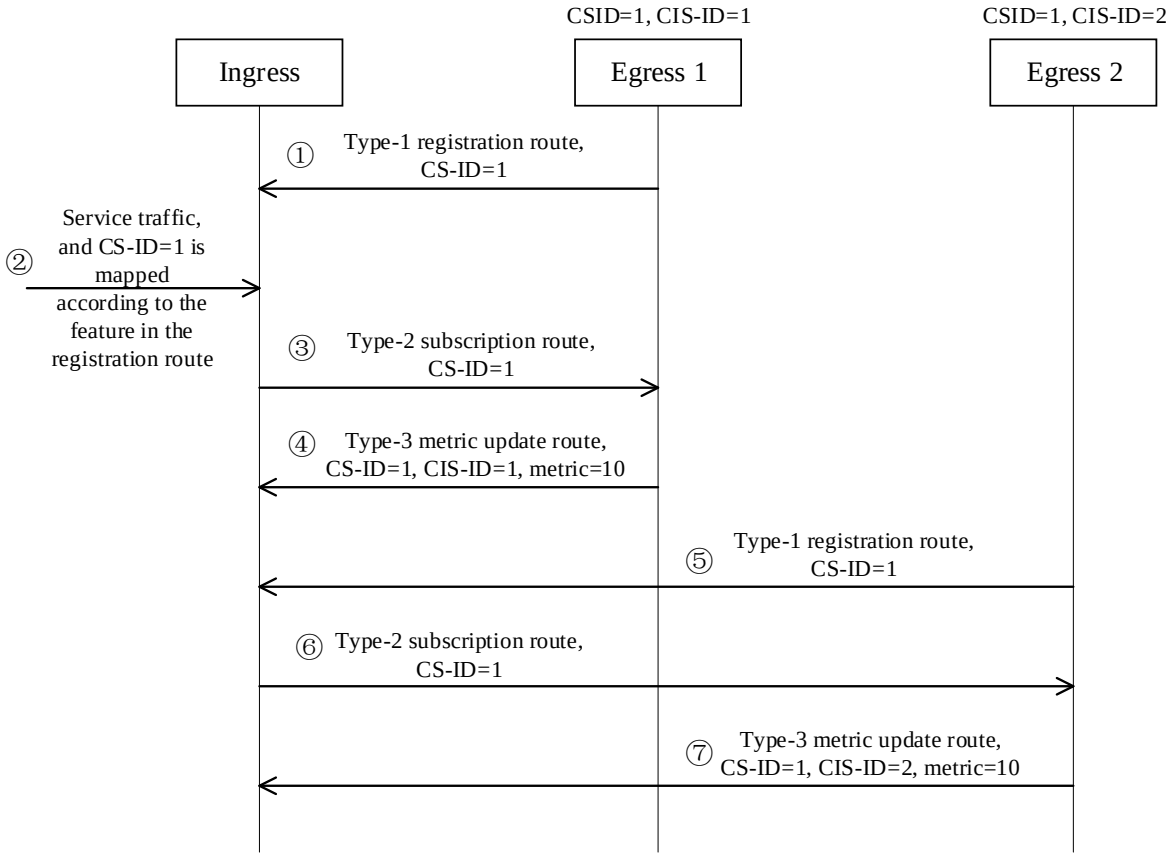

CSID=1, CIS-ID=1
CSID=1, CIS-ID=2
Ingress
Egress 1
Egress 2
① Type-1 registration route, CS-ID=1
② Service traffic, and CS-ID=1 is mapped according to the feature in the registration route
③ Type-2 subscription route, CS-ID=1
④ Type-3 metric update route, CS-ID=1, CIS-ID=1, metric=10
⑤ Type-1 registration route, CS-ID=1
⑥ Type-2 subscription route, CS-ID=1
⑦ Type-3 metric update route, CS-ID=1, CIS-ID=2, metric=10

FIG. 5A

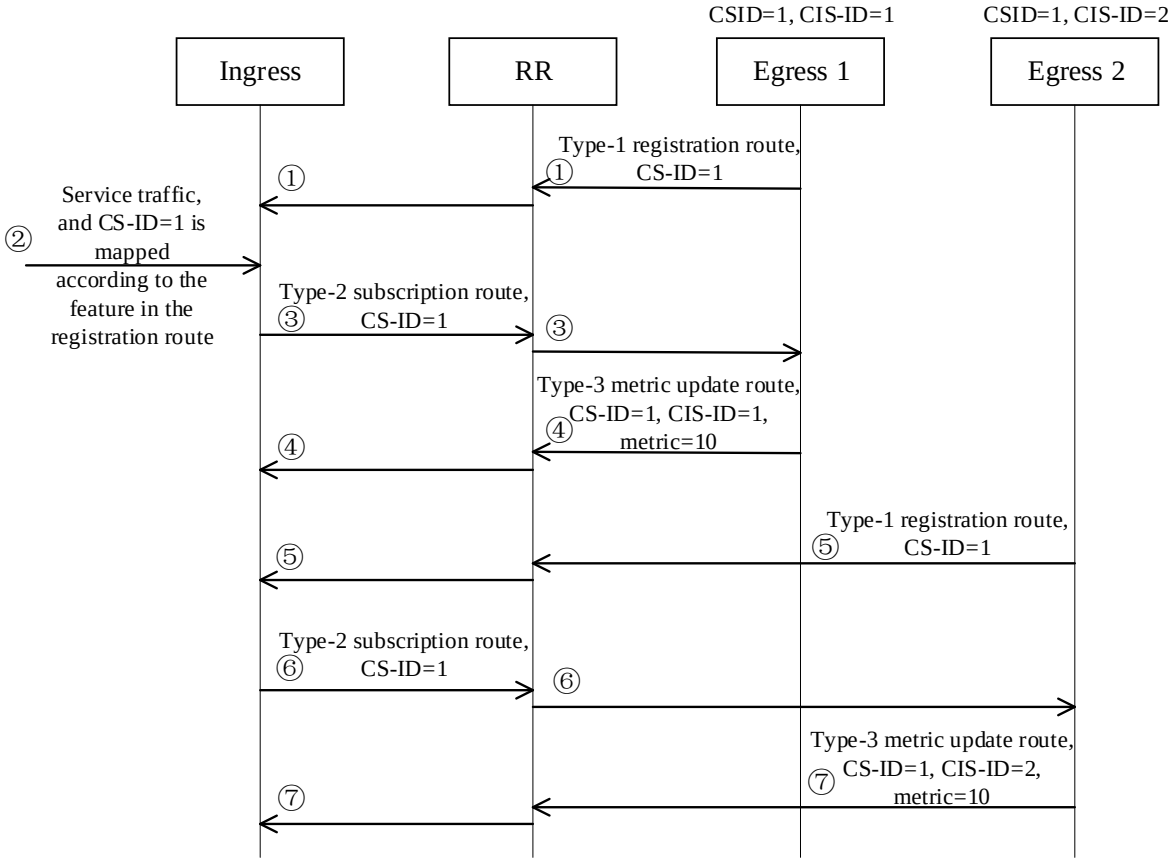

CSID=1, CIS-ID=1
CSID=1, CIS-ID=2
Ingress
RR
Egress 1
Egress 2
Type-1 registration route,
CS-ID=1
①
①
Service traffic,
and CS-ID=1 is
mapped
according to the
feature in the
registration route
②
Type-2 subscription route,
③
CS-ID=1
③
Type-3 metric update route,
CS-ID=1, CIS-ID=1,
④
metric=10
④
Type-1 registration route,
⑤
CS-ID=1
⑤
Type-2 subscription route,
⑥
CS-ID=1
⑥
Type-3 metric update route,
⑦
CS-ID=1, CIS-ID=2,
metric=10
⑦

FIG. 5B

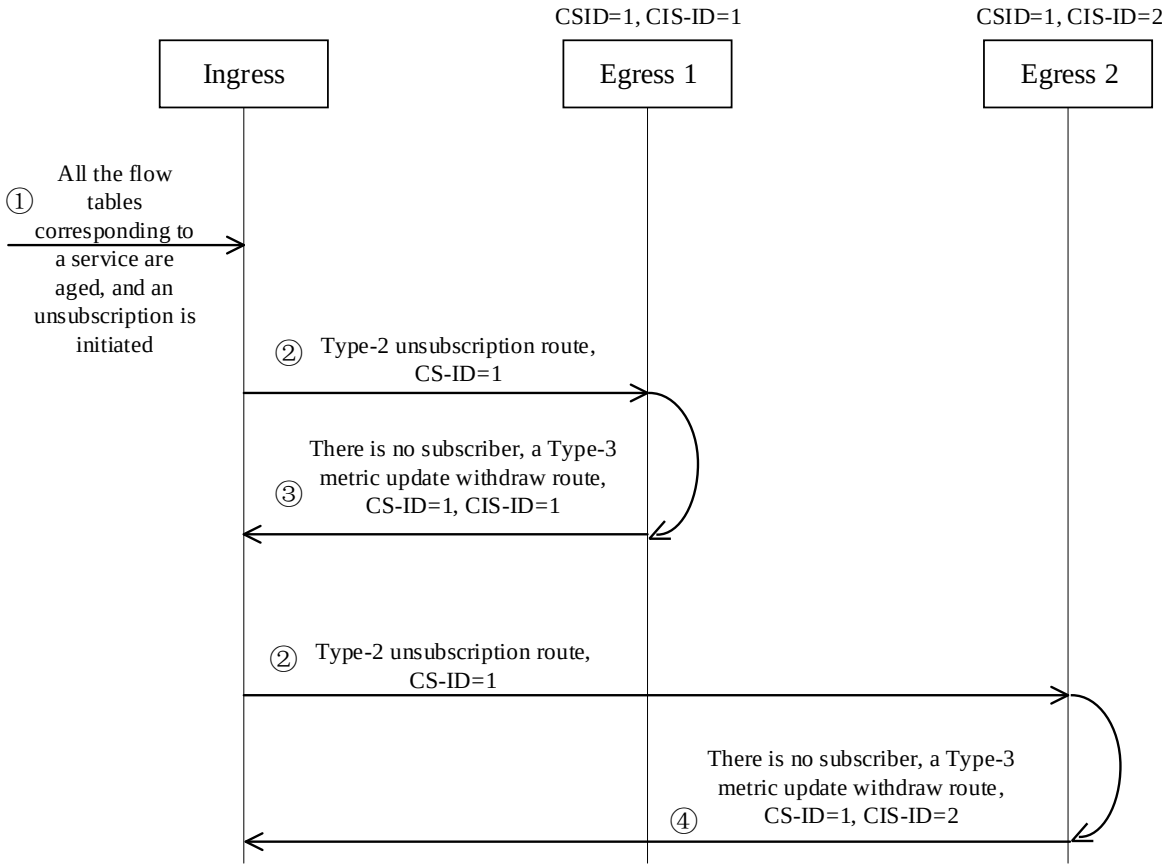

CSID=1, CIS-ID=1
CSID=1, CIS-ID=2
Ingress
Egress 1
Egress 2
① All the flow tables corresponding to a service are aged, and an unsubscription is initiated
② Type-2 unsubscription route, CS-ID=1
③ There is no subscriber, a Type-3 metric update withdraw route, CS-ID=1, CIS-ID=1
② Type-2 unsubscription route, CS-ID=1
④ There is no subscriber, a Type-3 metric update withdraw route, CS-ID=1, CIS-ID=2

FIG. 5C

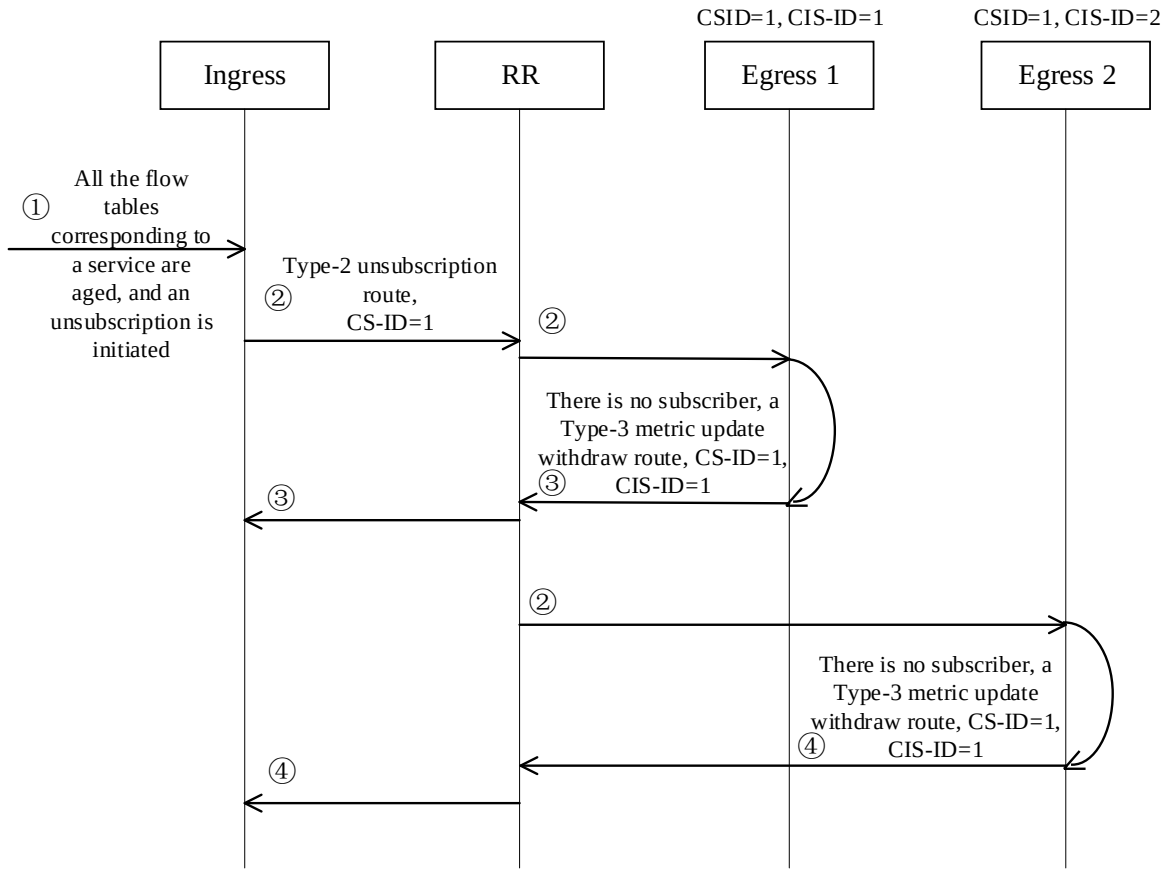

CSID=1, CIS-ID=1
CSID=1, CIS-ID=2
Ingress
RR
Egress 1
Egress 2
① All the flow tables corresponding to a service are aged, and an unsubscription is initiated
② Type-2 unsubscription route, CS-ID=1
②
There is no subscriber, a Type-3 metric update withdraw route, CS-ID=1, CIS-ID=1
③
③
②
There is no subscriber, a Type-3 metric update withdraw route, CS-ID=1, CIS-ID=1
④
④

FIG. 5D

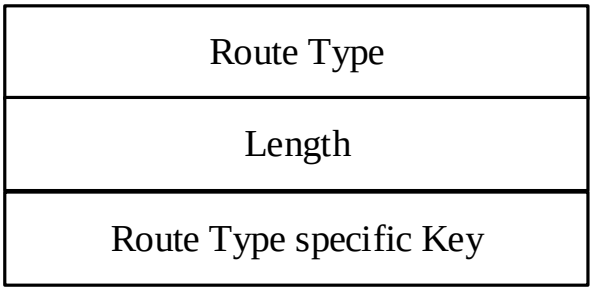

Route Type
Length
Route Type specific Key

FIG. 6A

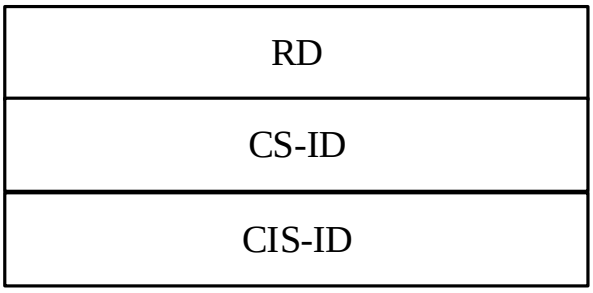


FIG. 6B



FIG. 6C

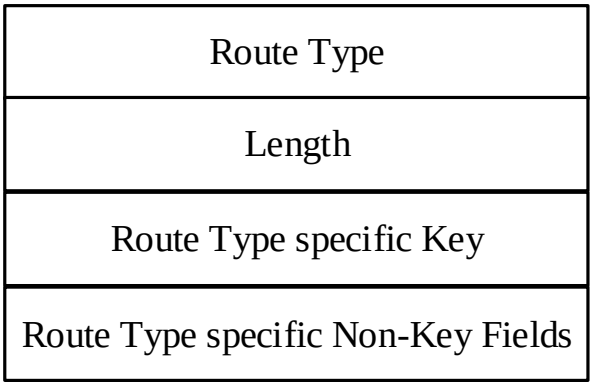


FIG. 6D

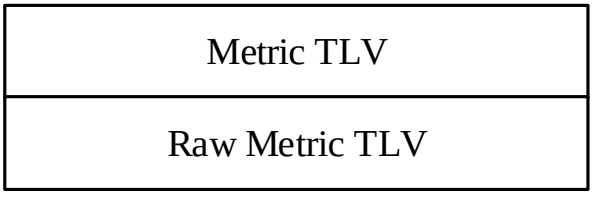


FIG. 6E

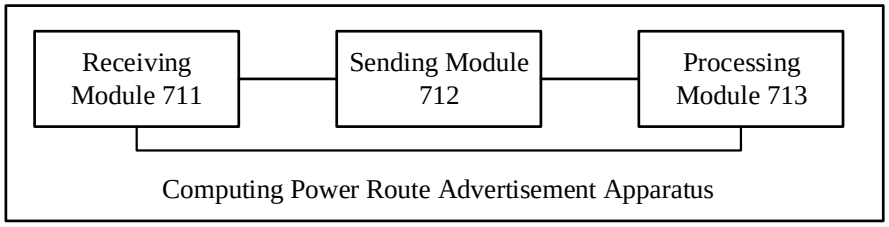


FIG. 7A

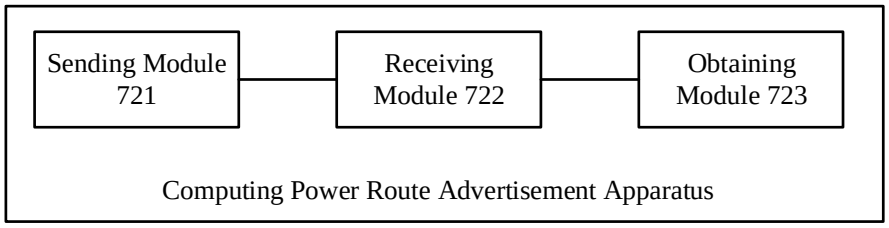


FIG. 7B

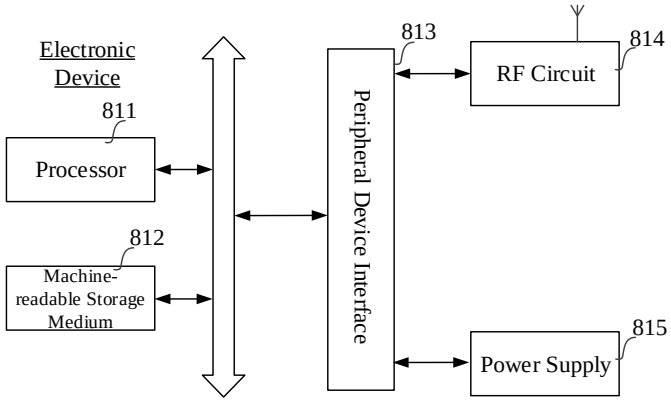


FIG. 8