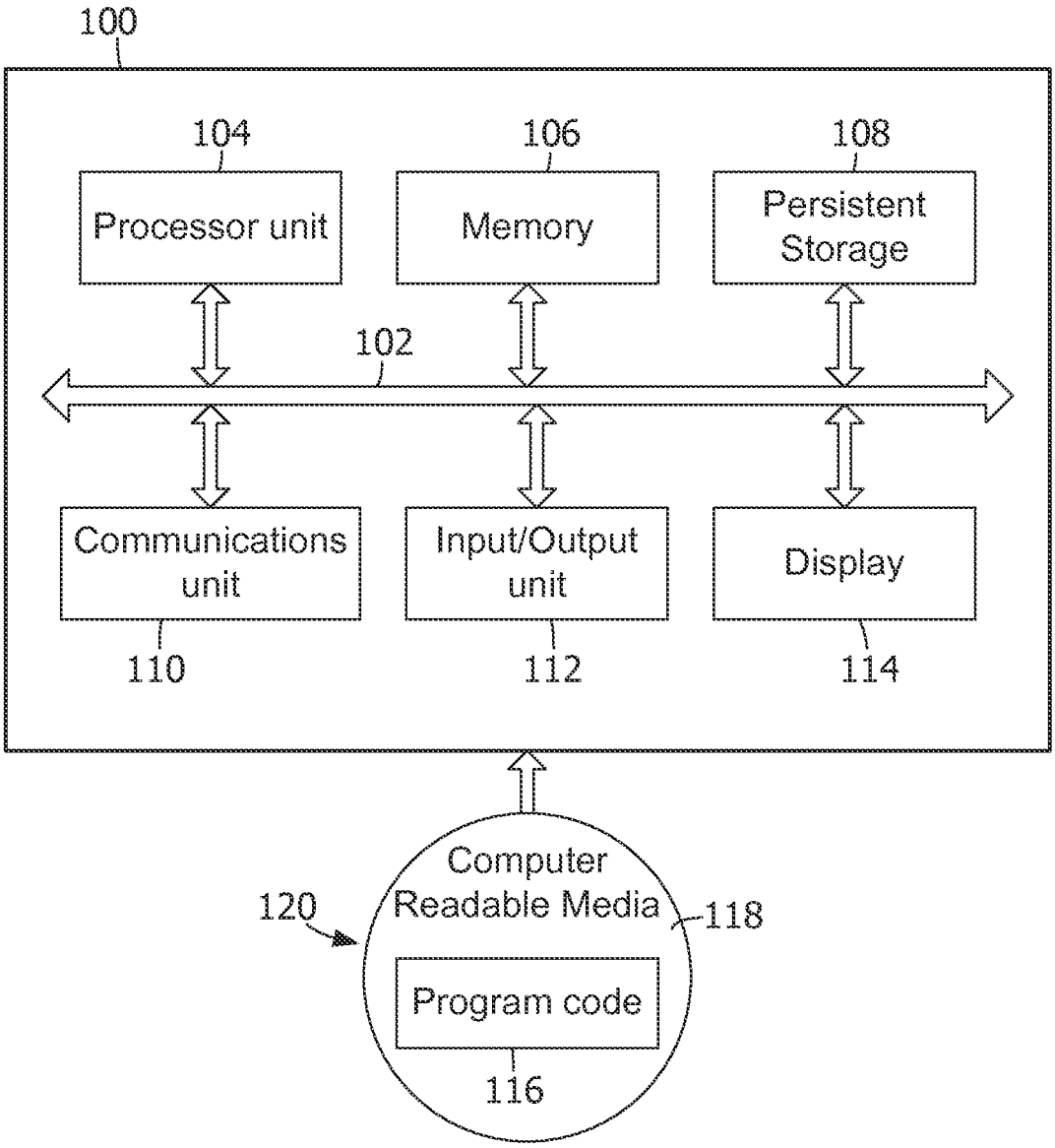
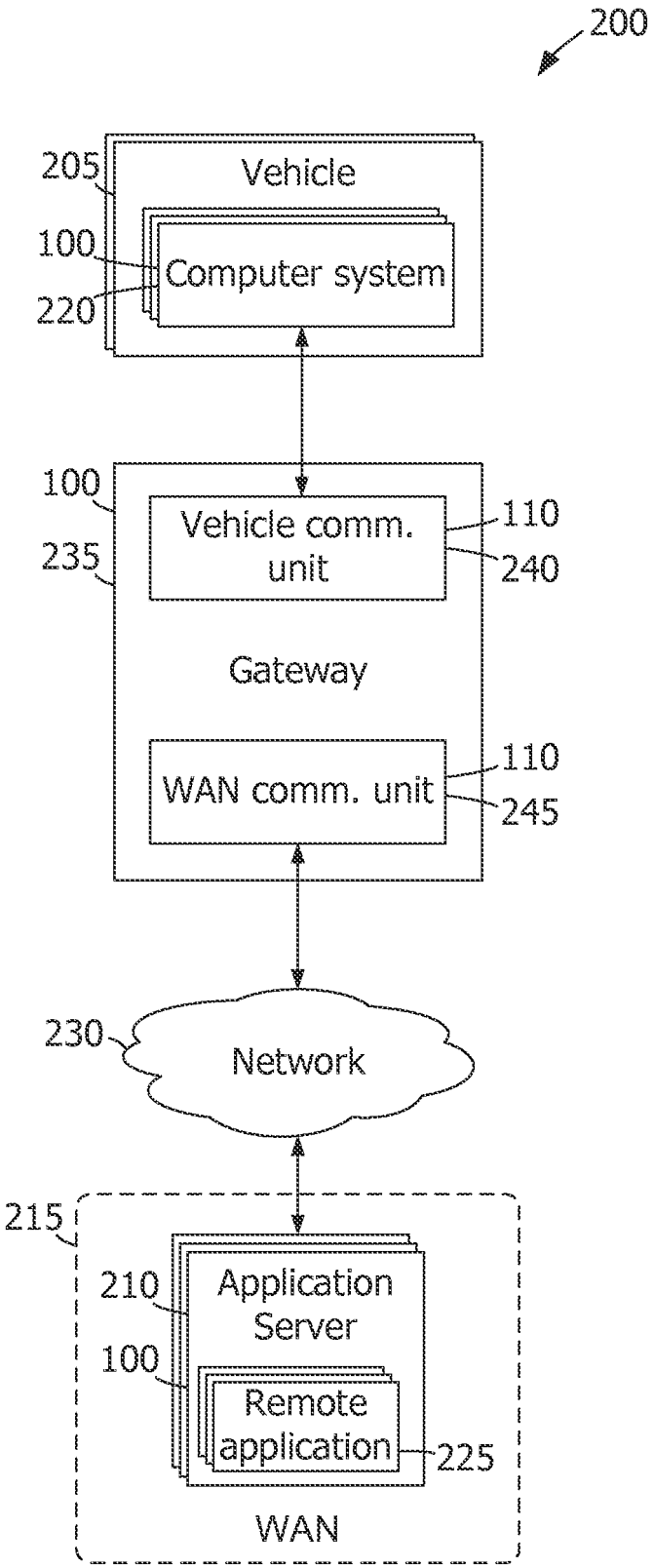

100
104
106
108
Processor unit
Memory
Persistent Storage
102
Communications unit
Input/Output unit
Display
110
112
114
Computer Readable Media
118
120
Program code
116

FIG. 1

FIG. 2


200
205
Vehicle
100
Computer system
220
100
Vehicle comm. unit
110
235
240
Gateway
WAN comm. unit
110
245
230
Network
215
210
Application Server
100
Remote application
225
WAN

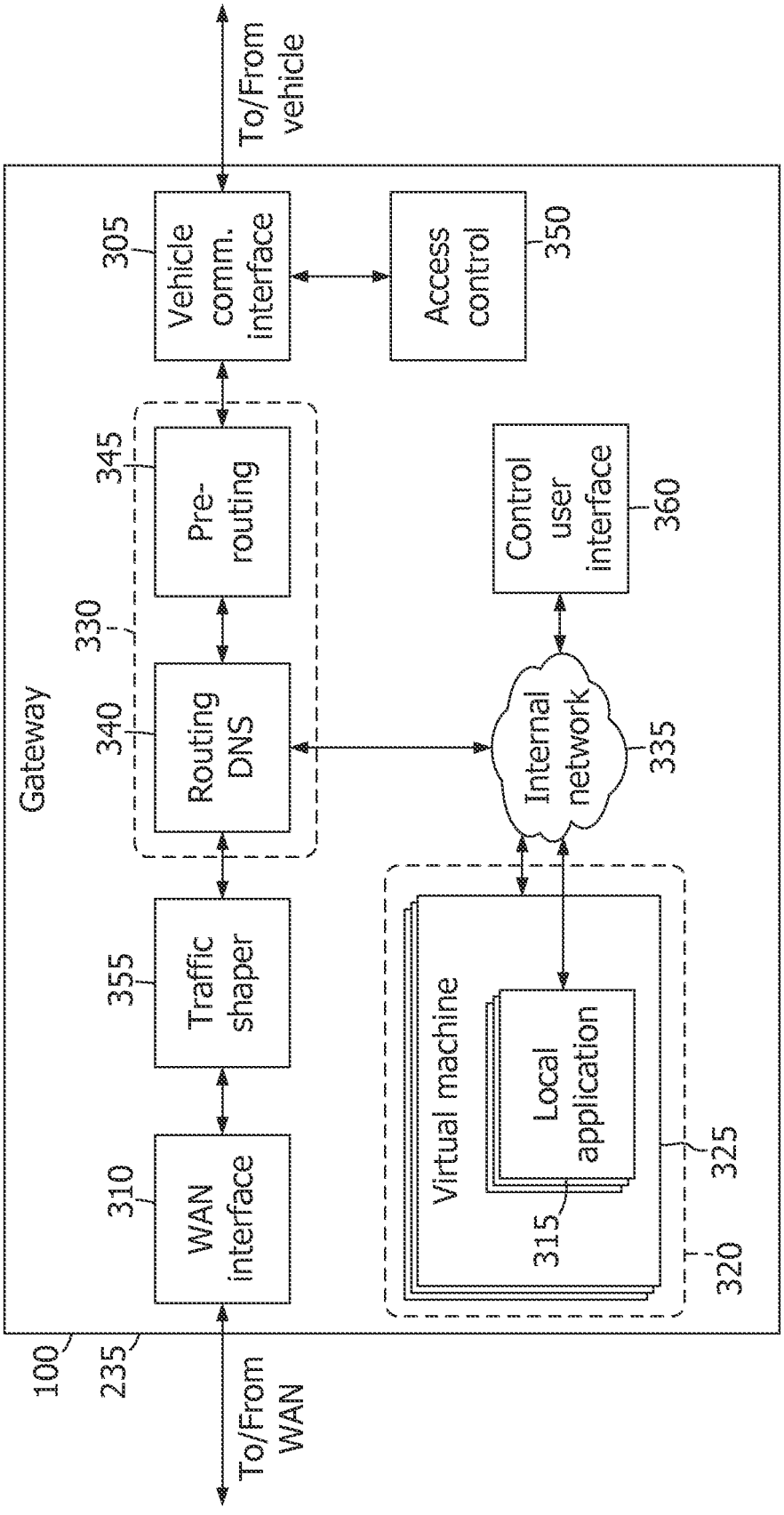

To/From vehicle
305
Vehicle comm. interface
Access control
350
345
Pre-routing
330
340
Routing DNS
Control user interface
360
Internal network
335
355
Traffic shaper
Virtual machine
Local application
315
325
320
310
WAN interface
Gateway
100
235
To/From WAN

FIG. 3

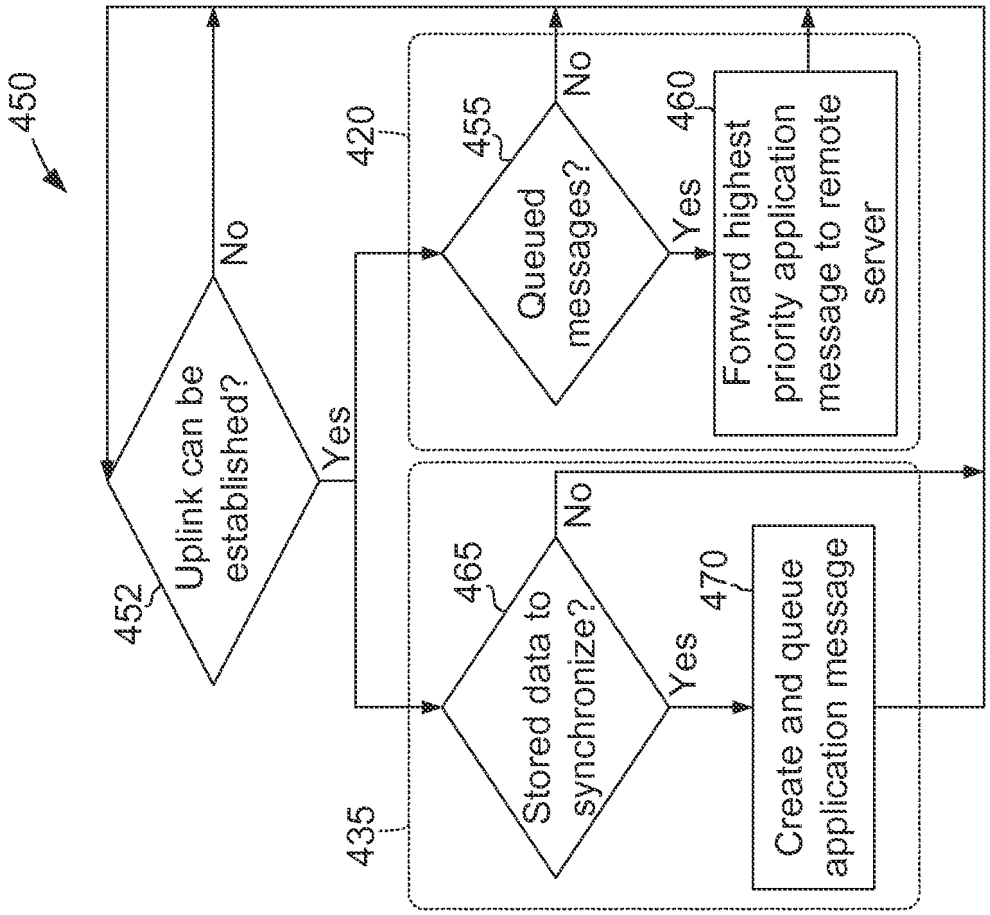

450
Uplink can be established?
452
No
Yes
420
Queued messages?
455
No
Yes
460
Forward highest priority application message to remote server
435
Stored data to synchronize?
465
No
Yes
470
Create and queue application message

FIG. 5

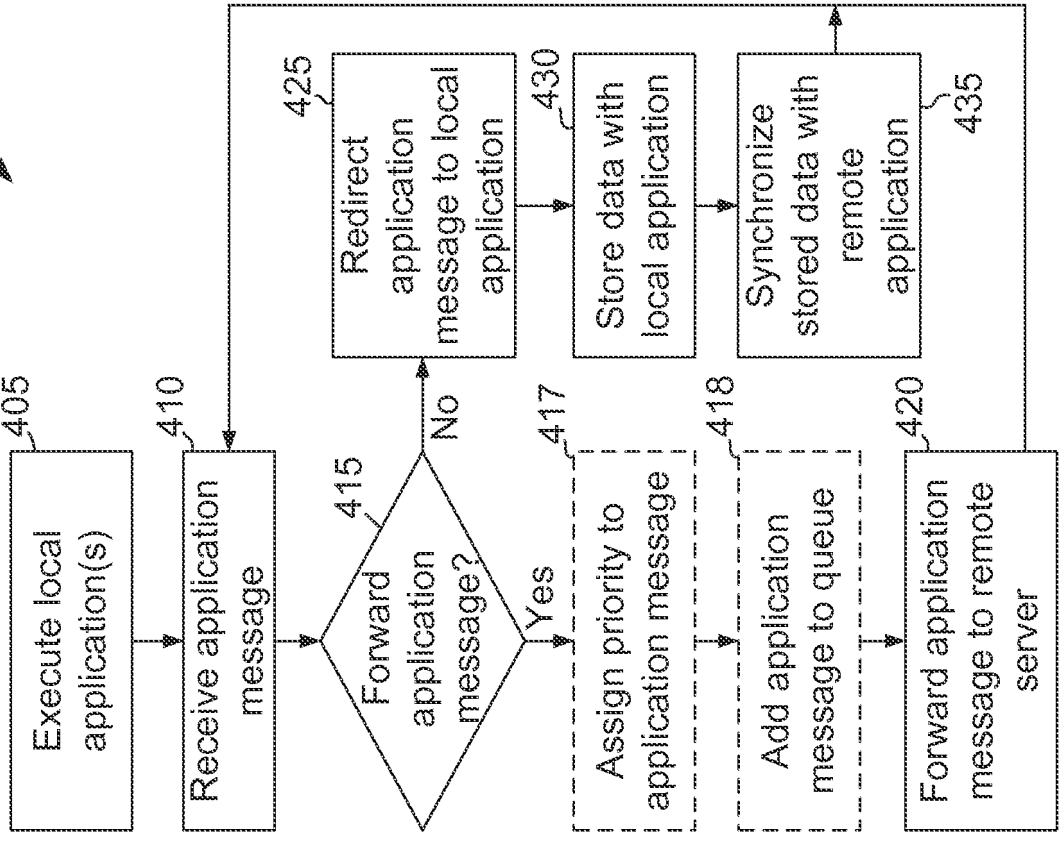
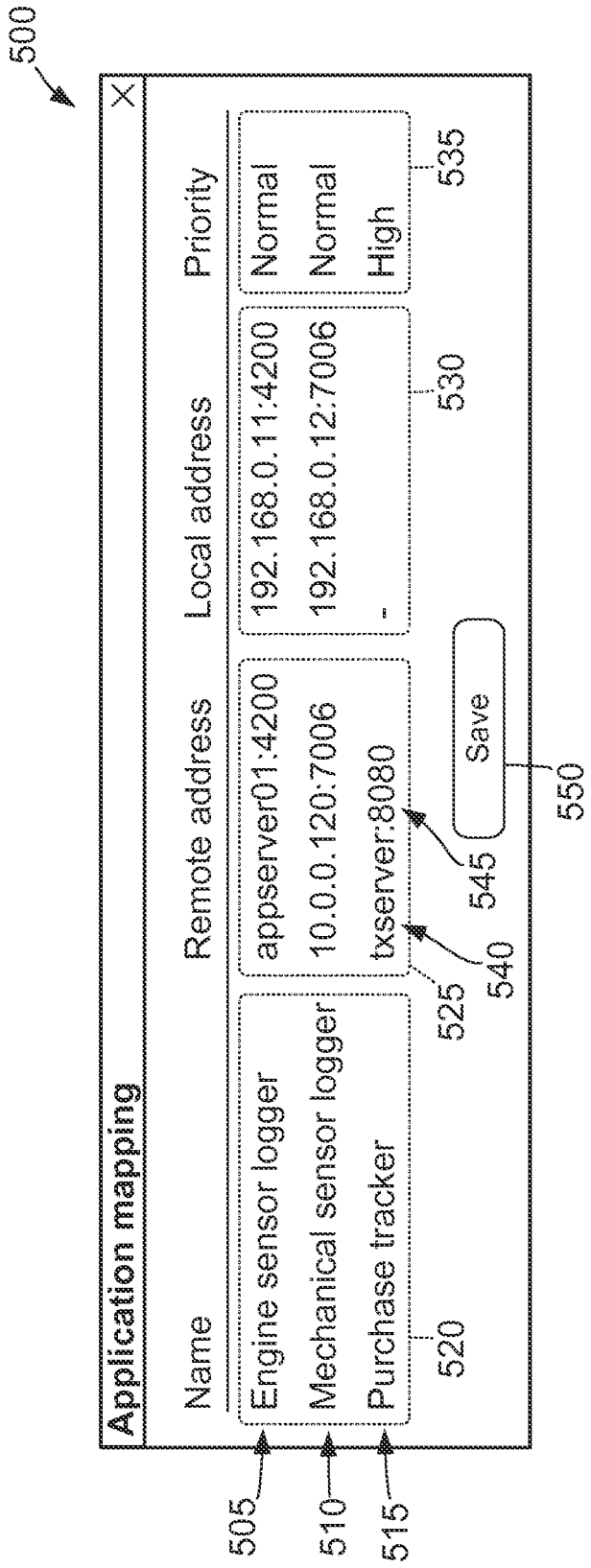

400
Execute local application(s)
405
Receive application message
410
Forward application message?
415
No
Yes
Redirect application message to local application
425
Store data with local application
430
Synchronize stored data with remote application
435
Assign priority to application message
417
Add application message to queue
418
Forward application message to remote server
420

FIG. 4

FIG. 6


500
Application mapping
Name
Remote address
Local address
Priority
Engine sensor logger
appserver01:4200
192.168.0.11:4200
Normal
Mechanical sensor logger
10.0.0.120:7006
192.168.0.12:7006
Normal
Purchase tracker
txserver:8080
-
High
Save
505
510
515
520
525
530
535
540
545
550