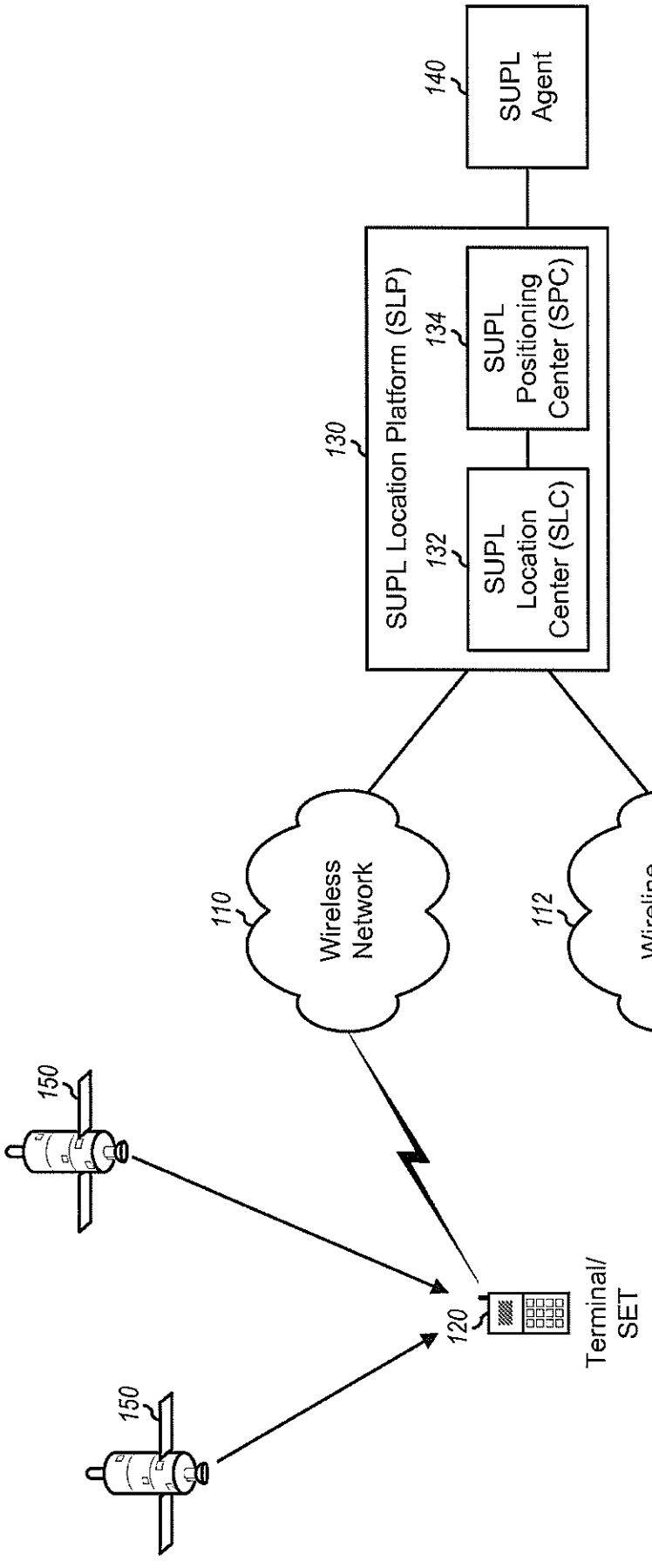

140
SUPL Agent
130
SUPL Location Platform (SLP)
134
SUPL Positioning Center (SPC)
132
SUPL Location Center (SLC)
110
Wireless Network
112
Wireline Network
150
150
120
Terminal/ SET

FIG. 1

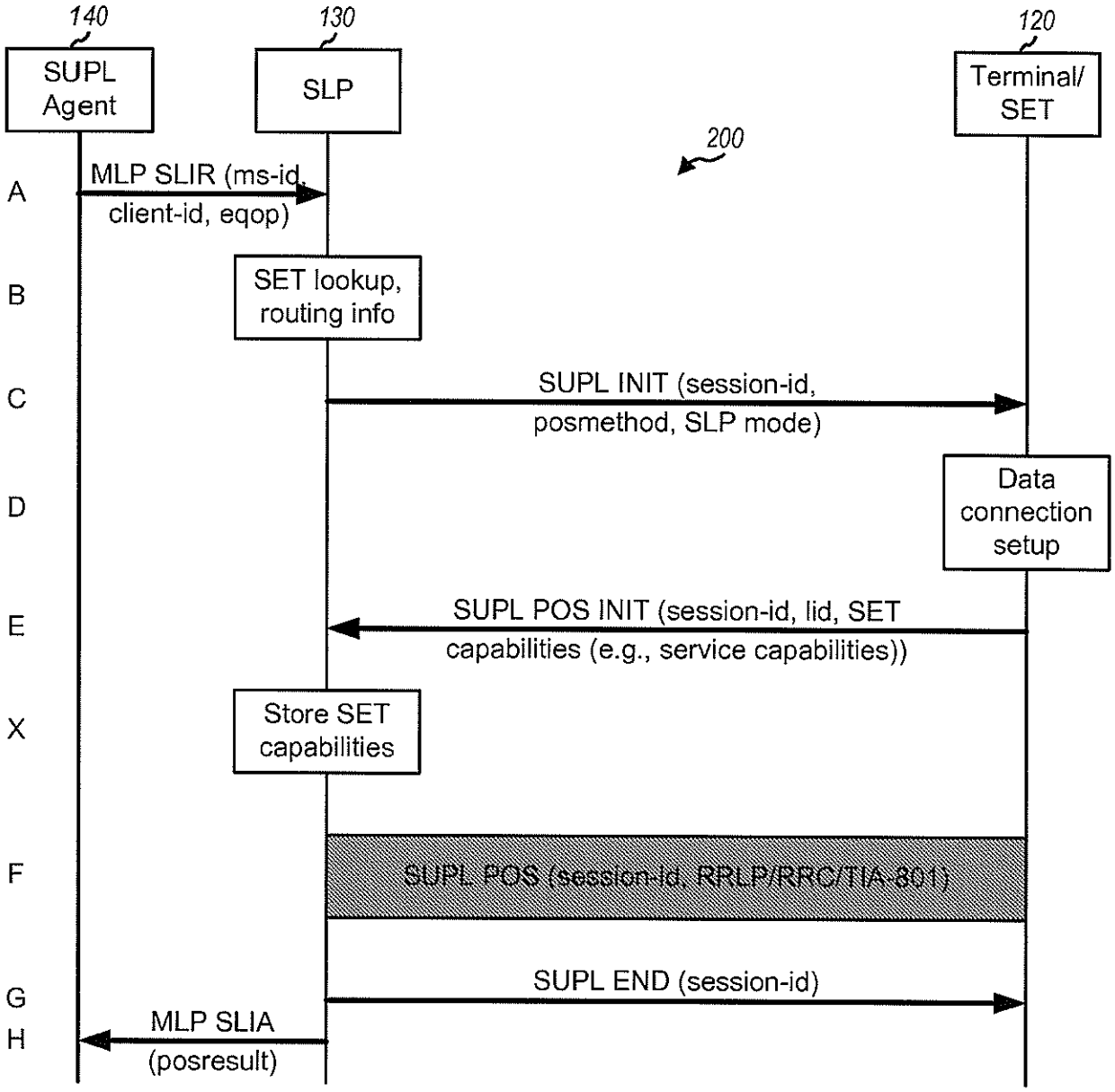

140
SUPL Agent
130
SLP
120
Terminal/ SET
200
A
MLP SLIR (ms-id, client-id, eqop)
B
SET lookup, routing info
C
SUPL INIT (session-id, posmethod, SLP mode)
D
Data connection setup
E
SUPL POS INIT (session-id, lid, SET capabilities (e.g., service capabilities))
X
Store SET capabilities
F
SUPL POS (session-id, RRLP/RRC/TIA-801)
G
SUPL END (session-id)
H
MLP SLIA (posresult)

FIG. 2

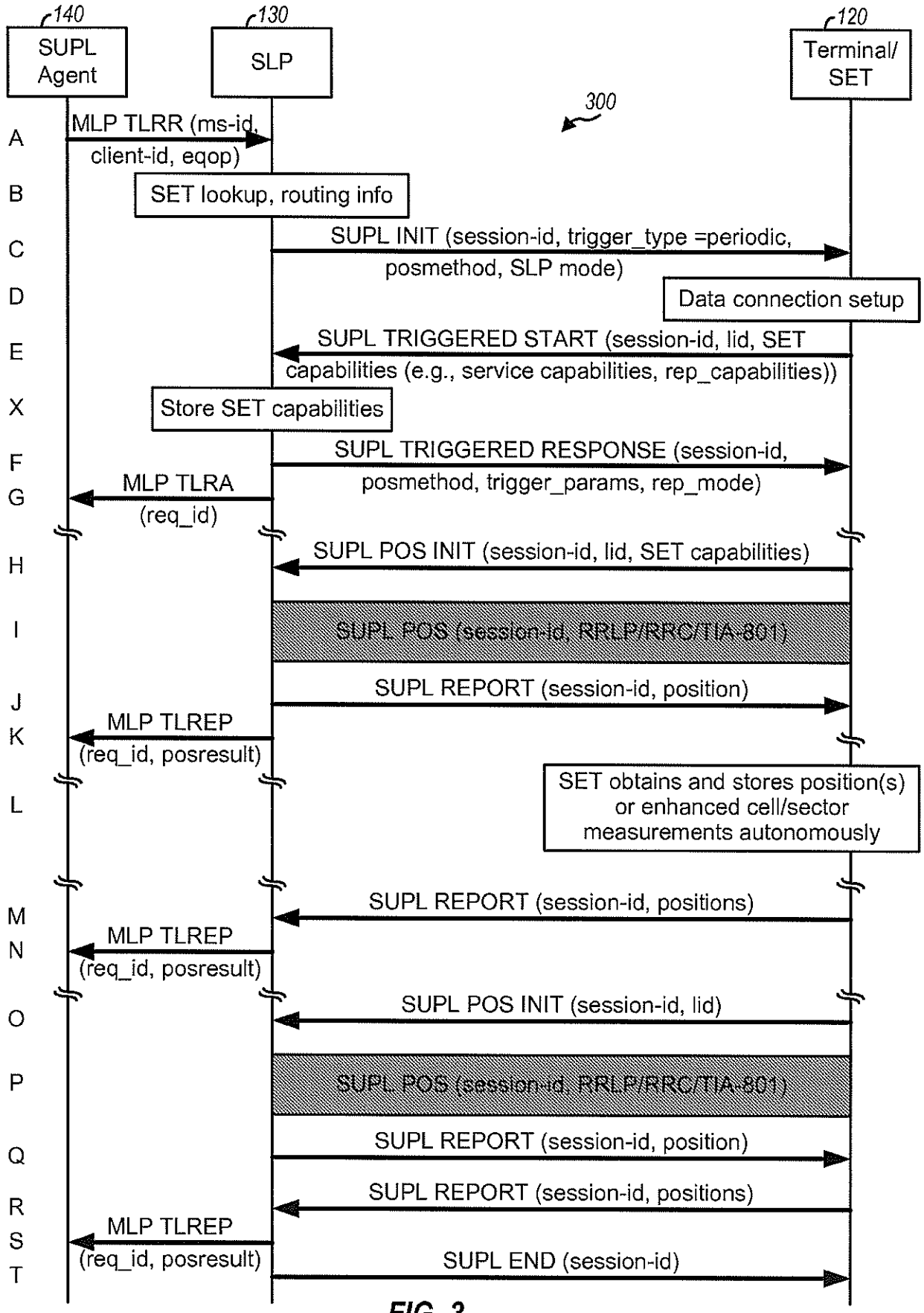

140
SUPL Agent
130
SLP
120
Terminal/ SET
300
A
MLP TLRR (ms-id, client-id, eqop)
B
SET lookup, routing info
C
SUPL INIT (session-id, trigger_type =periodic, posmethod, SLP mode)
D
Data connection setup
E
SUPL TRIGGERED START (session-id, lid, SET capabilities (e.g., service capabilities, rep_capabilities))
X
Store SET capabilities
F
SUPL TRIGGERED RESPONSE (session-id, posmethod, trigger_params, rep_mode)
G
MLP TLRA (req_id)
H
SUPL POS INIT (session-id, lid, SET capabilities)
I
SUPL POS (session-id, RRLP/RRC/TIA-801)
J
SUPL REPORT (session-id, position)
K
MLP TLREP (req_id, posresult)
L
SET obtains and stores position(s) or enhanced cell/sector measurements autonomously
M
SUPL REPORT (session-id, positions)
N
MLP TLREP (req_id, posresult)
O
SUPL POS INIT (session-id, lid)
P
SUPL POS (session-id, RRLP/RRC/TIA-801)
Q
SUPL REPORT (session-id, position)
R
SUPL REPORT (session-id, positions)
S
MLP TLREP (req_id, posresult)
T
SUPL END (session-id)

FIG. 3

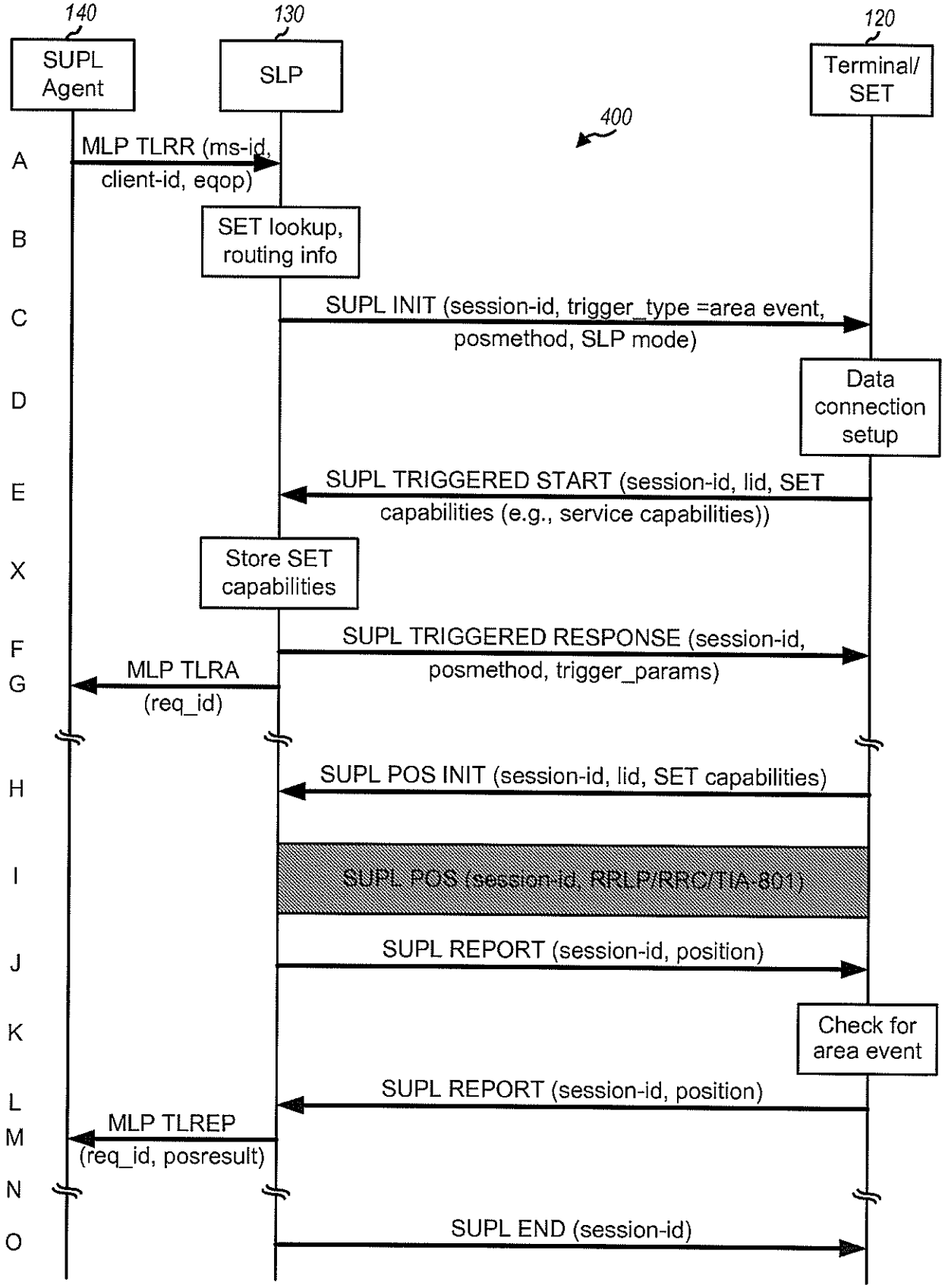

140
SUPL Agent
130
SLP
120
Terminal/ SET
400
A
MLP TLRR (ms-id, client-id, eqop)
B
SET lookup, routing info
C
SUPL INIT (session-id, trigger_type =area event, posmethod, SLP mode)
D
Data connection setup
E
SUPL TRIGGERED START (session-id, lid, SET capabilities (e.g., service capabilities))
X
Store SET capabilities
F
SUPL TRIGGERED RESPONSE (session-id, posmethod, trigger_params)
G
MLP TLRA (req_id)
H
SUPL POS INIT (session-id, lid, SET capabilities)
I
SUPL POS (session-id, RRLP/RRC/TIA-801)
J
SUPL REPORT (session-id, position)
K
Check for area event
L
SUPL REPORT (session-id, position)
M
MLP TLREP (req_id, posresult)
N
O
SUPL END (session-id)

FIG. 4

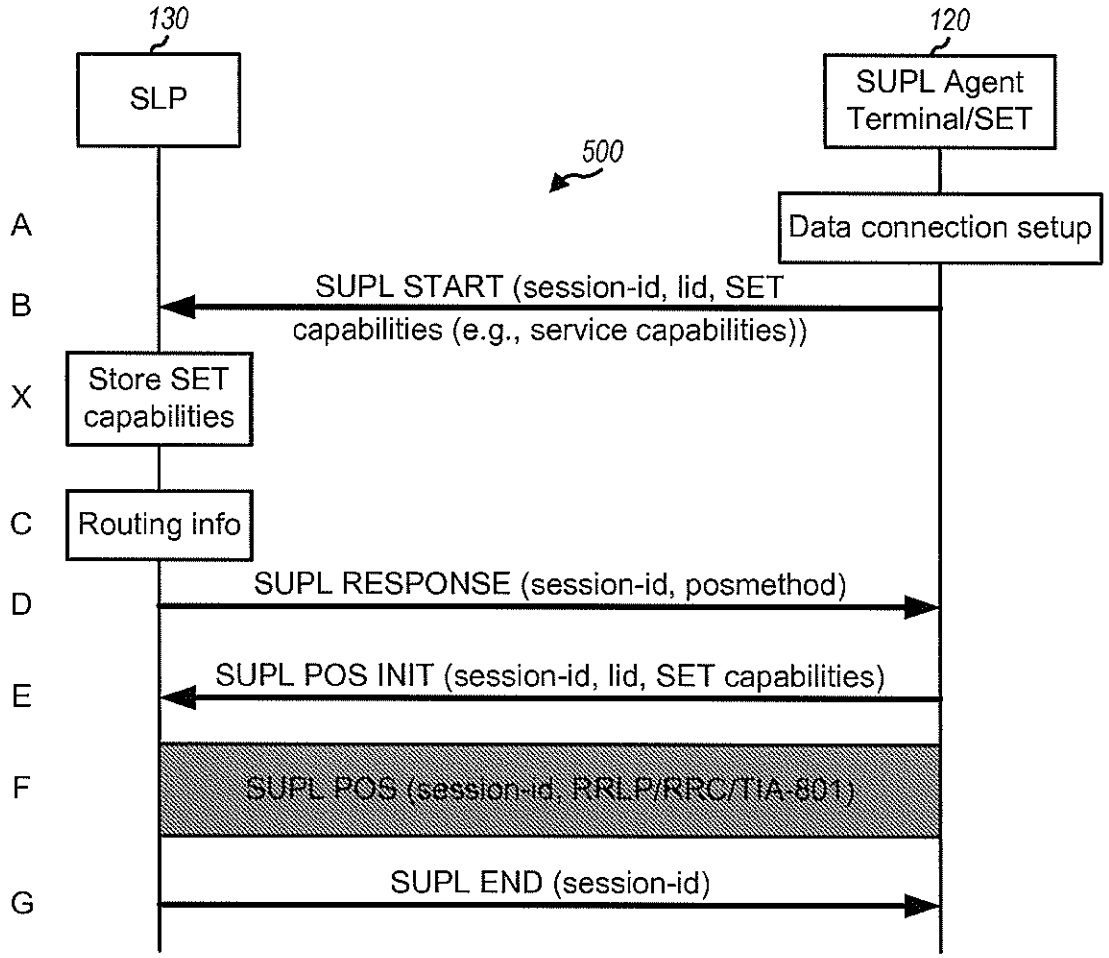

130
SLP
120
SUPL Agent Terminal/SET
500
A
Data connection setup
B
SUPL START (session-id, lid, SET capabilities (e.g., service capabilities))
X
Store SET capabilities
C
Routing info
D
SUPL RESPONSE (session-id, posmethod)
E
SUPL POS INIT (session-id, lid, SET capabilities)
F
SUPL POS (session-id, RRLP/RRC/T1A-801)
G
SUPL END (session-id)

FIG. 5

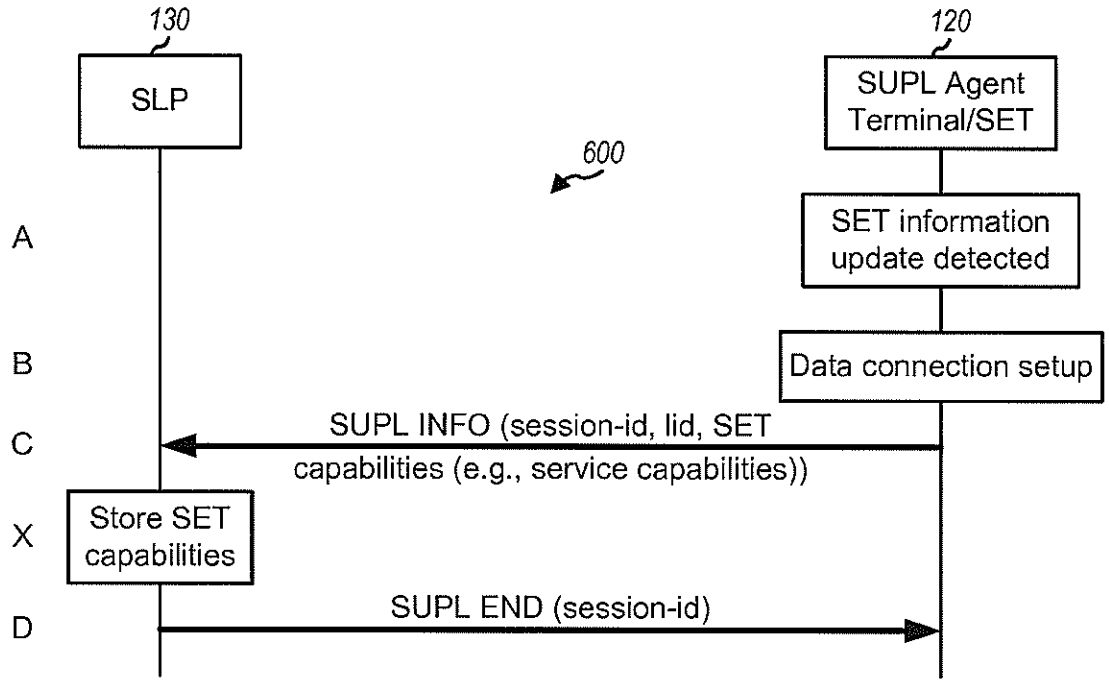

130
SLP
120
SUPL Agent Terminal/SET
600
A
SET information update detected
B
Data connection setup
C
SUPL INFO (session-id, lid, SET capabilities (e.g., service capabilities))
X
Store SET capabilities
D
SUPL END (session-id)

FIG. 6

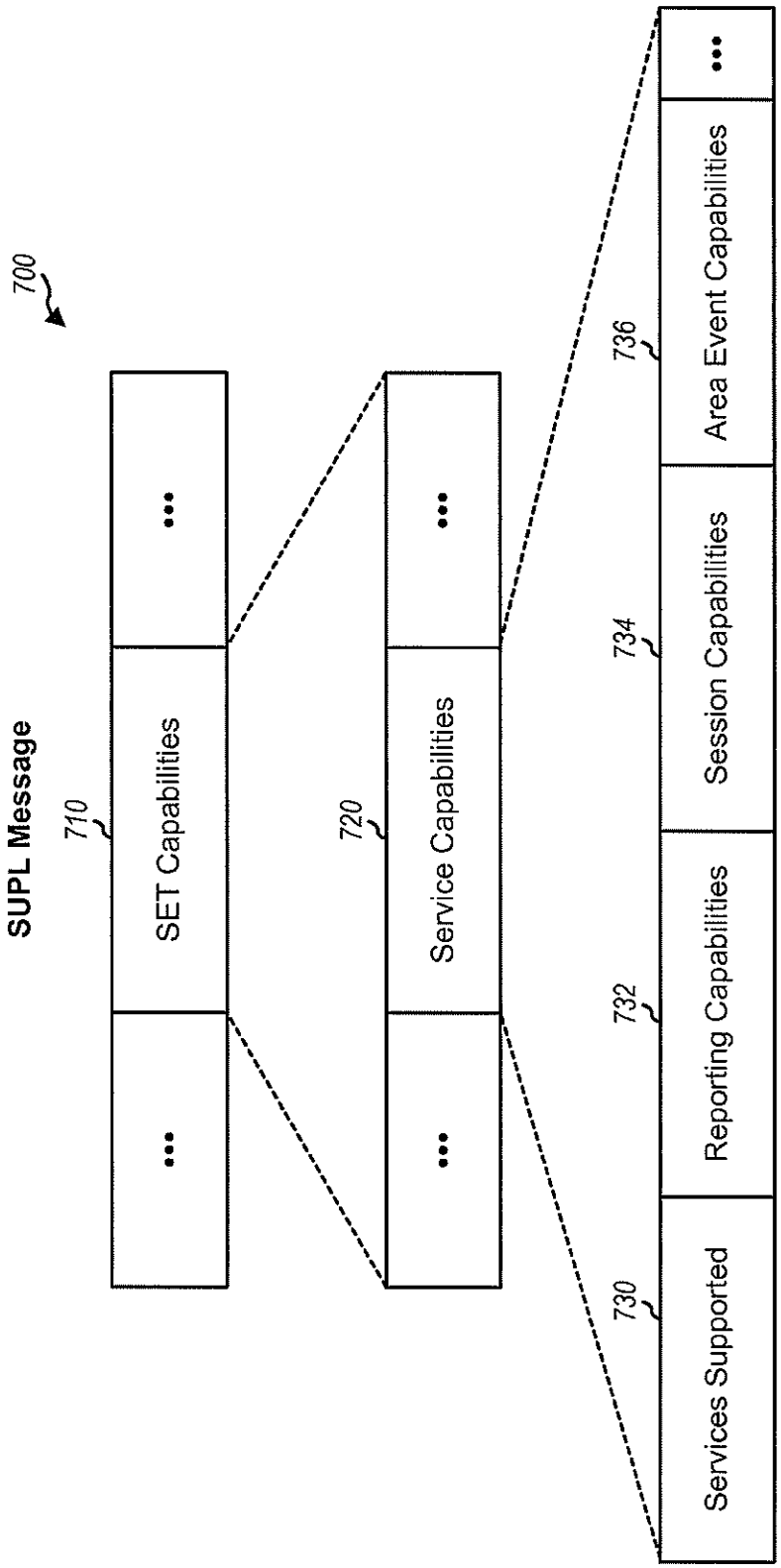

700
SUPL Message
710
SET Capabilities
720
Service Capabilities
730
Services Supported
732
Reporting Capabilities
734
Session Capabilities
736
Area Event Capabilities

FIG. 7

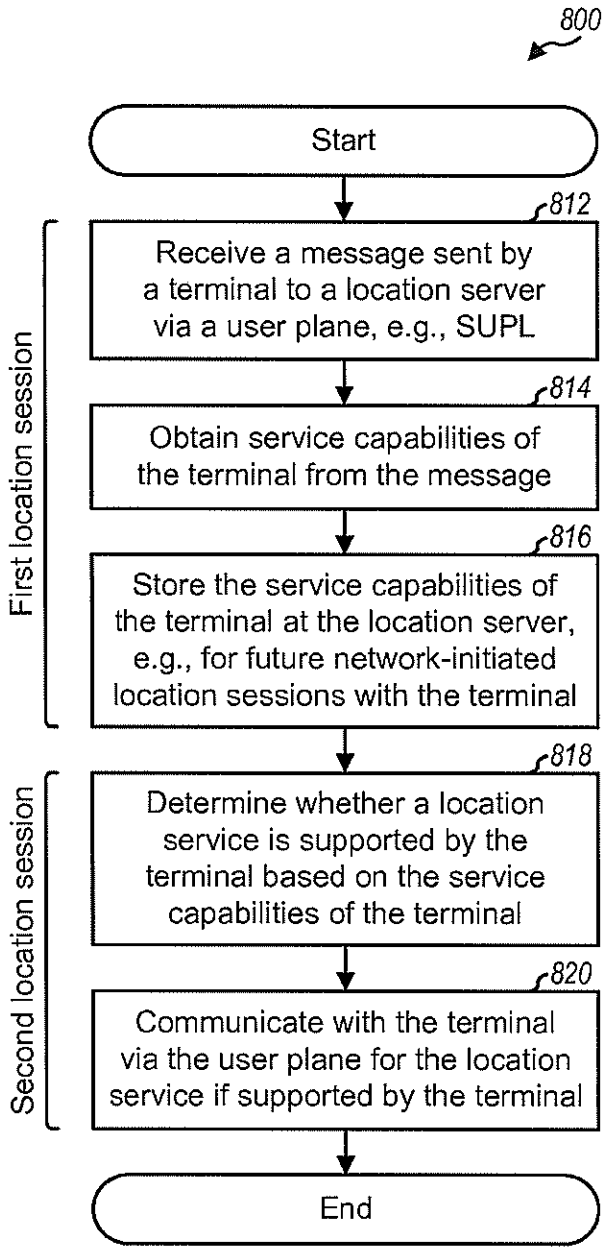

800
Start
812
Receive a message sent by a terminal to a location server via a user plane, e.g., SUPL
814
Obtain service capabilities of the terminal from the message
816
Store the service capabilities of the terminal at the location server, e.g., for future network-initiated location sessions with the terminal
First location session
818
Determine whether a location service is supported by the terminal based on the service capabilities of the terminal
820
Communicate with the terminal via the user plane for the location service if supported by the terminal
Second location session
End

FIG. 8

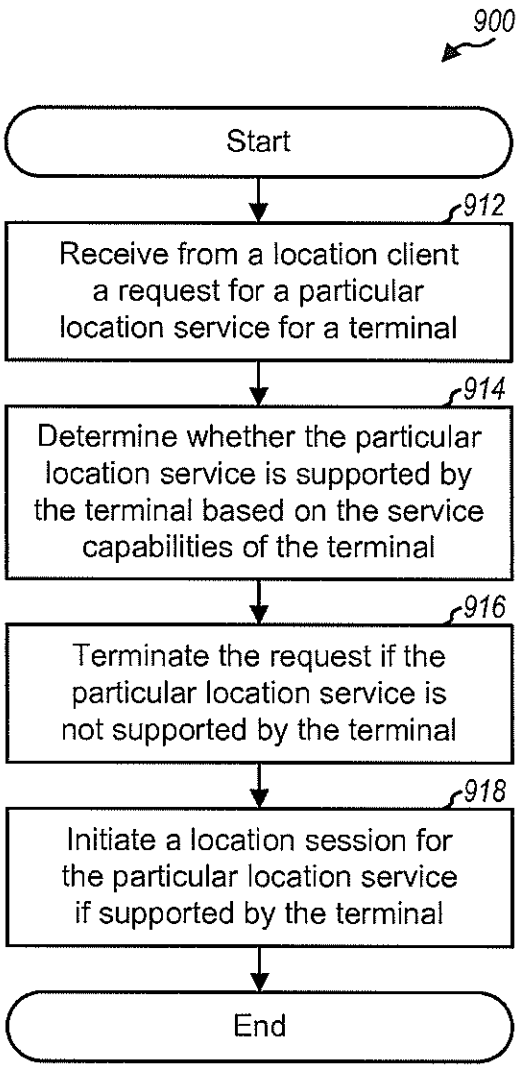

900
Start
912
Receive from a location client a request for a particular location service for a terminal
914
Determine whether the particular location service is supported by the terminal based on the service capabilities of the terminal
916
Terminate the request if the particular location service is not supported by the terminal
918
Initiate a location session for the particular location service if supported by the terminal
End

FIG. 9

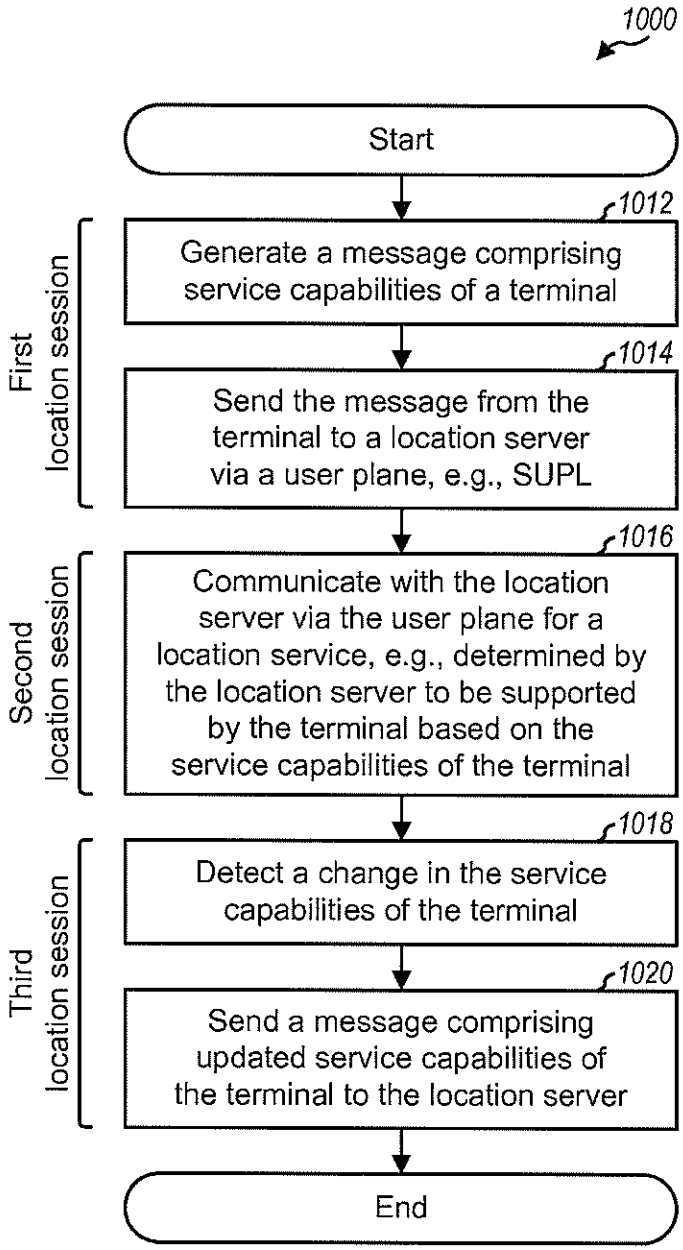

1000
Start
1012
Generate a message comprising service capabilities of a terminal
1014
Send the message from the terminal to a location server via a user plane, e.g., SUPL
1016
Communicate with the location server via the user plane for a location service, e.g., determined by the location server to be supported by the terminal based on the service capabilities of the terminal
1018
Detect a change in the service capabilities of the terminal
1020
Send a message comprising updated service capabilities of the terminal to the location server
End
First location session
Second location session
Third location session

FIG. 10

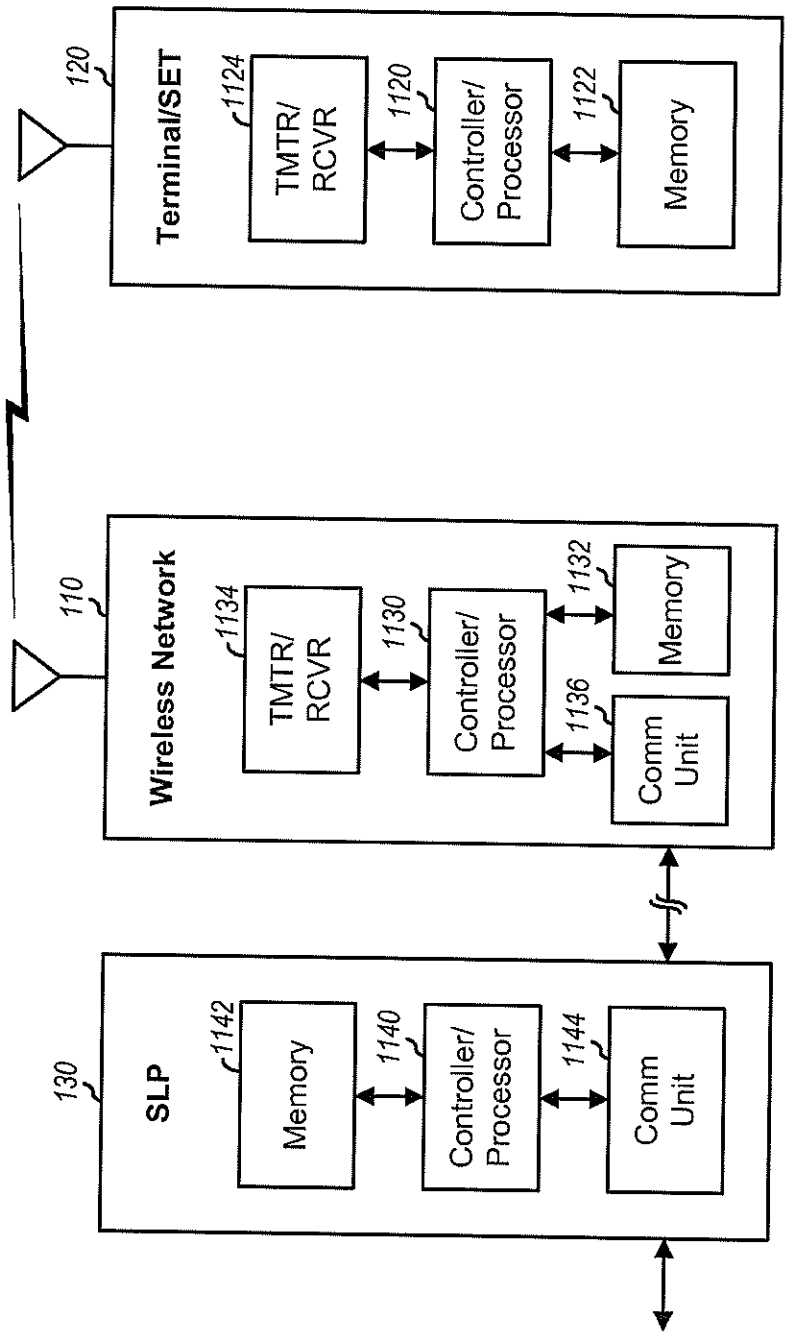

120
Terminal/SET
1124
TMTR/
RCVR
1120
Controller/
Processor
1122
Memory
110
Wireless Network
1134
TMTR/
RCVR
1130
Controller/
Processor
1132
Memory
1136
Comm
Unit
130
SLP
1142
Memory
1140
Controller/
Processor
1144
Comm
Unit

FIG. 11