FIG.1

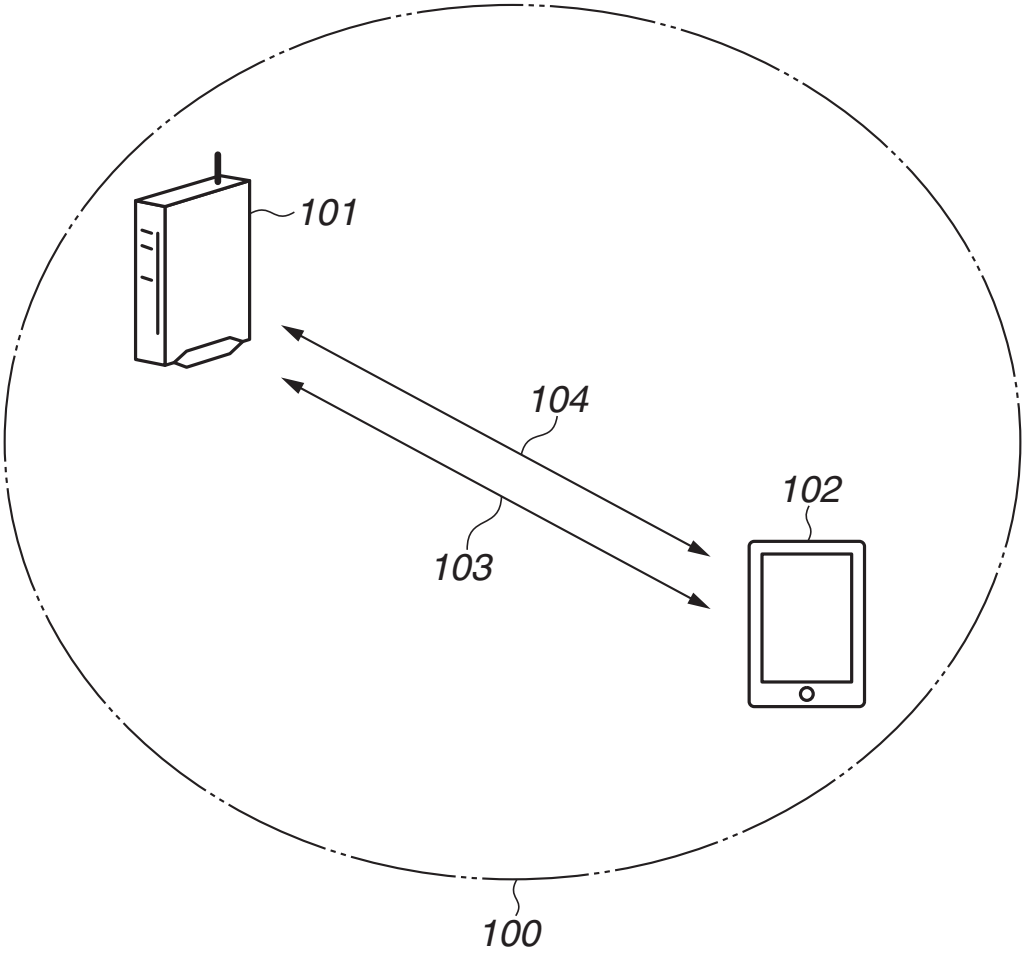


FIG.2

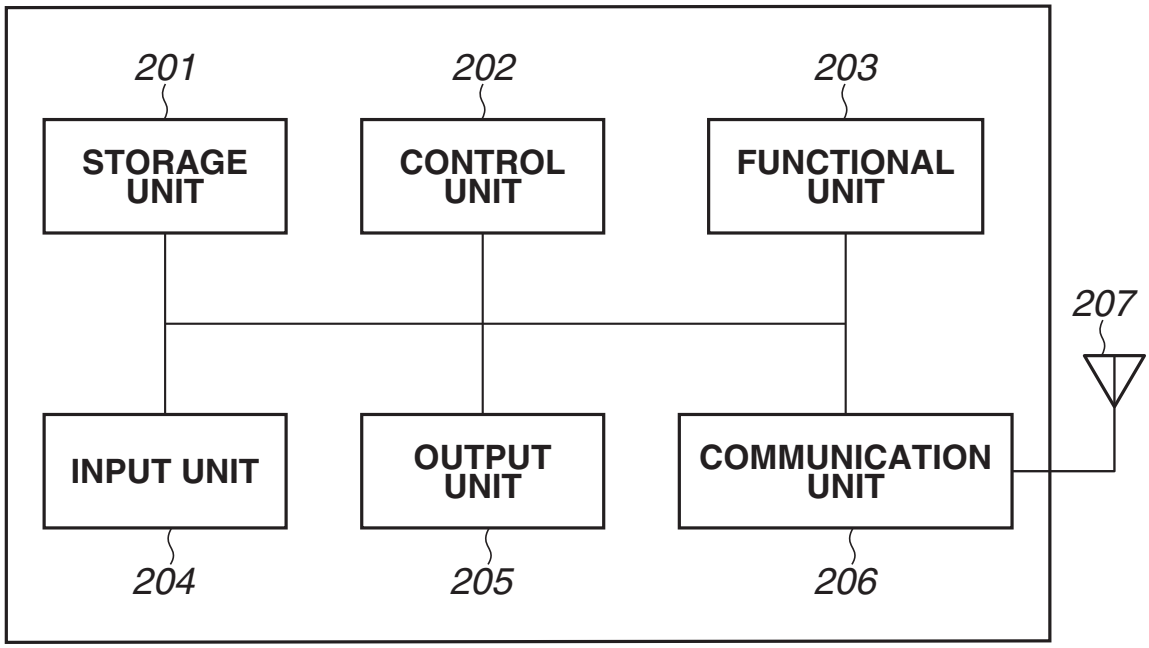

201
202
203
STORAGE UNIT
CONTROL UNIT
FUNCTIONAL UNIT
207
INPUT UNIT
OUTPUT UNIT
COMMUNICATION UNIT
204
205
206

FIG.3

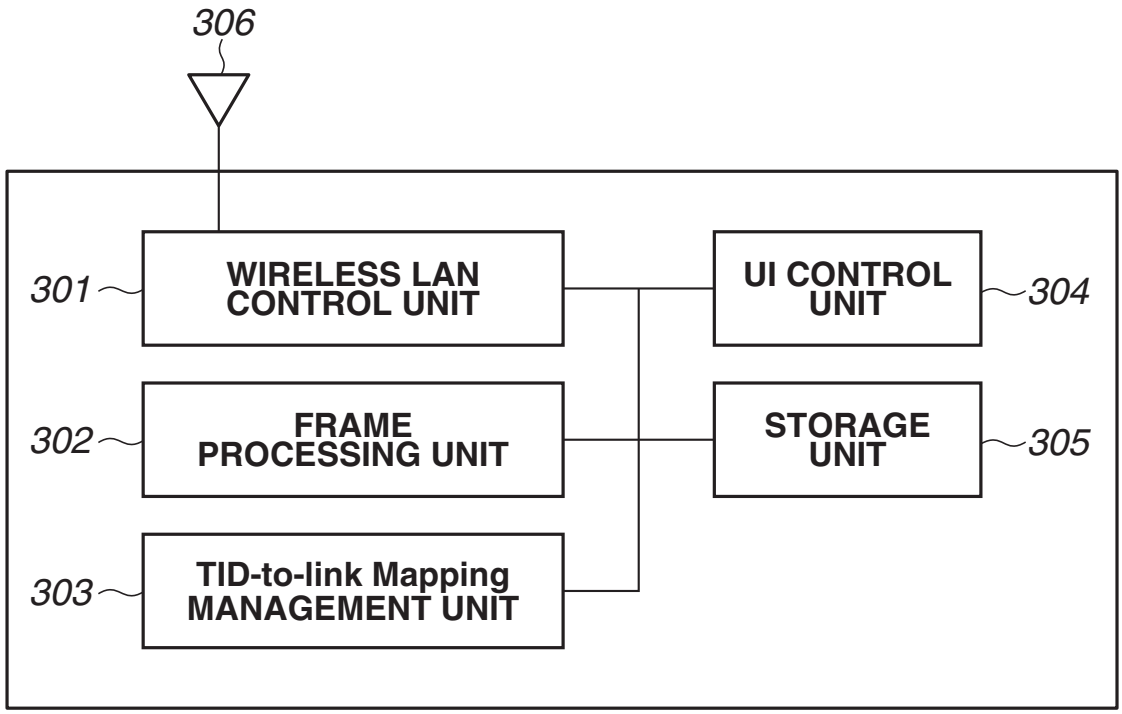

306
301
WIRELESS LAN CONTROL UNIT
302
FRAME PROCESSING UNIT
303
TID-to-link Mapping MANAGEMENT UNIT
UI CONTROL UNIT
304
STORAGE UNIT
305

FIG.4

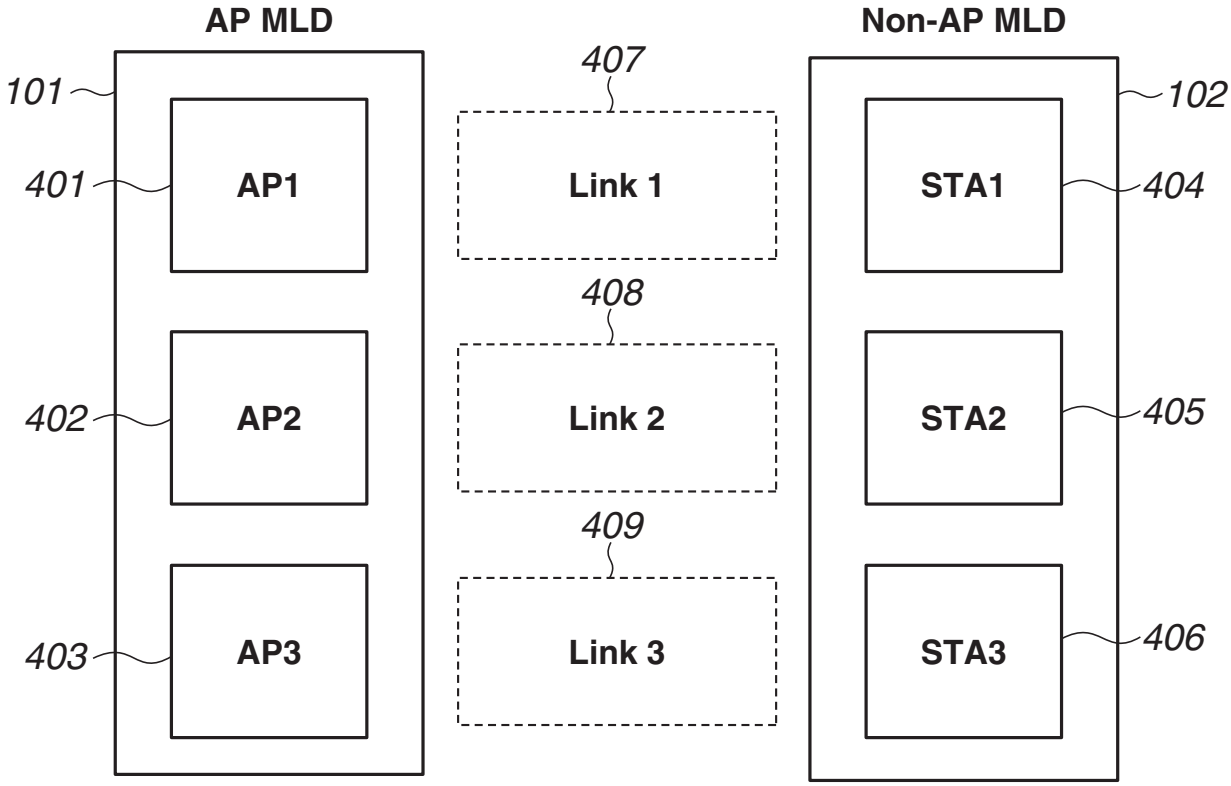

AP MLD
Non-AP MLD
101
102
401
AP1
402
AP2
403
AP3
407
Link 1
408
Link 2
409
Link 3
STA1
404
STA2
405
STA3
406

FIG.5

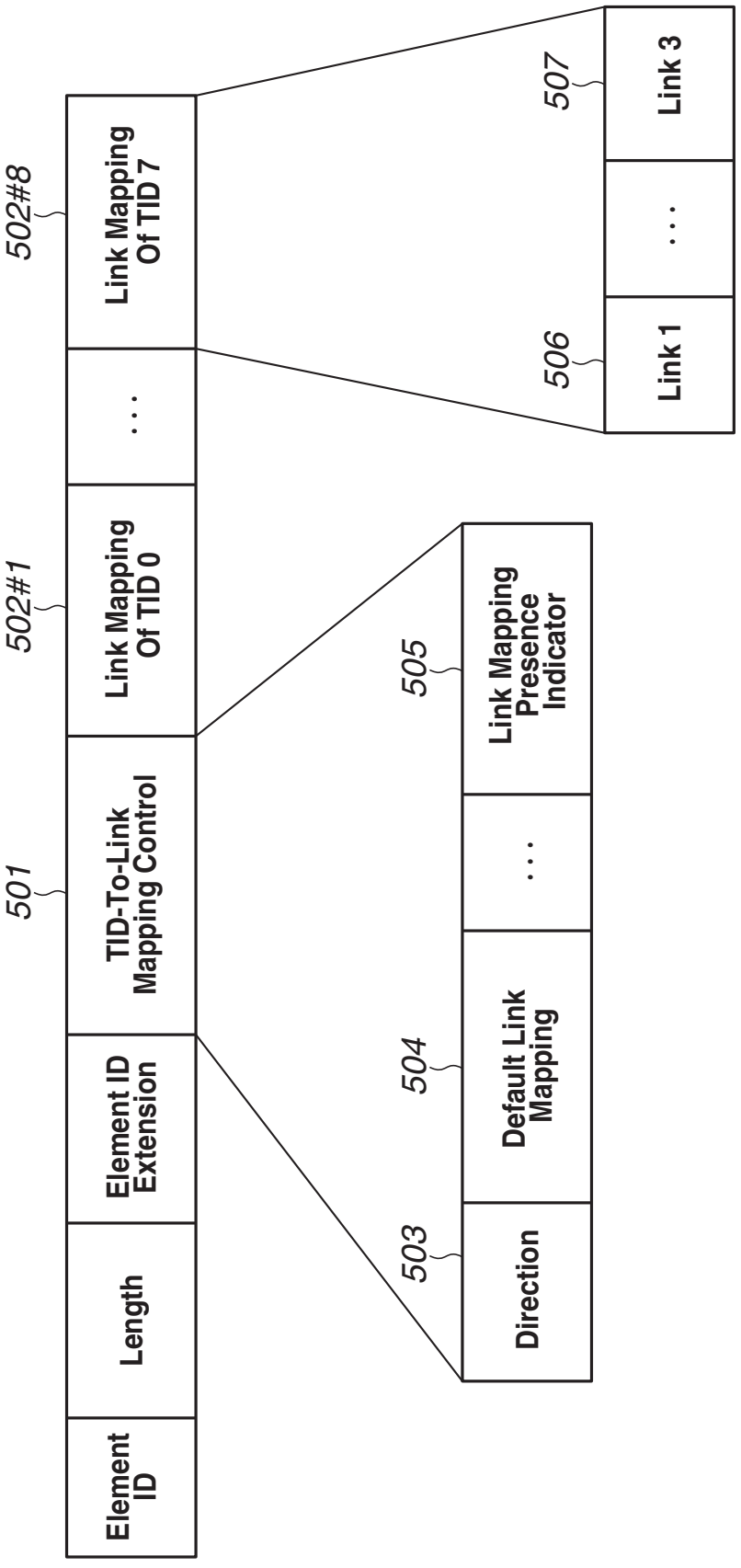

Element ID
Length
Element ID Extension
TID-To-Link Mapping Control
Link Mapping Of TID 0
...
Link Mapping Of TID 7
501
502#1
502#8
Direction
Default Link Mapping
...
Link Mapping Presence Indicator
503
504
505
Link 1
...
Link 3
506
507

FIG.6A


601
602
603
Category
EHT Action
Dialog Token
TID-To-Link Mapping element

FIG.6B


601
602
604
603
Category
EHT Action
Dialog Token
Status Code
TID-To-Link Mapping element

FIG.7A


701
702
703
704
Category
EHT Action
Dialog Token
Link ID Info
TID-To-Link Mapping element

FIG.7B

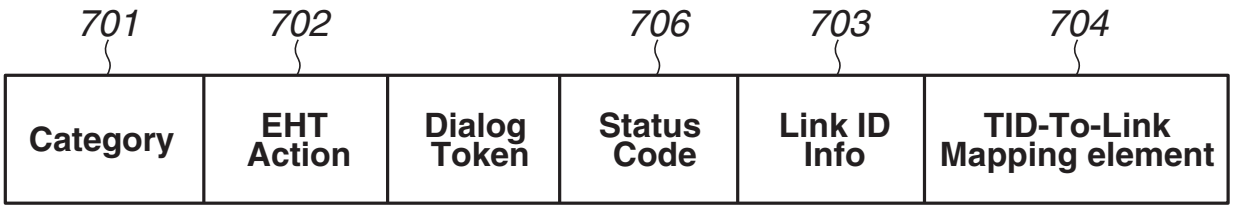

701
702
706
703
704
Category
EHT Action
Dialog Token
Status Code
Link ID Info
TID-To-Link Mapping element

FIG.7C


701
702
703
704
Category
EHT Action
Dialog Token
Link ID Info
TID-To-Link Mapping element

FIG.7D

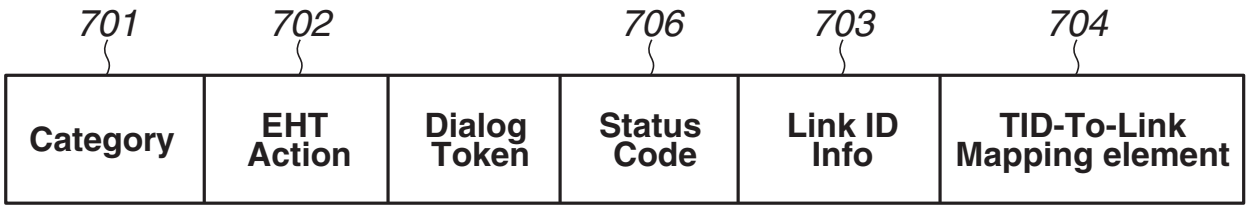

701
702
706
703
704
Category
EHT Action
Dialog Token
Status Code
Link ID Info
TID-To-Link Mapping element

FIG.8

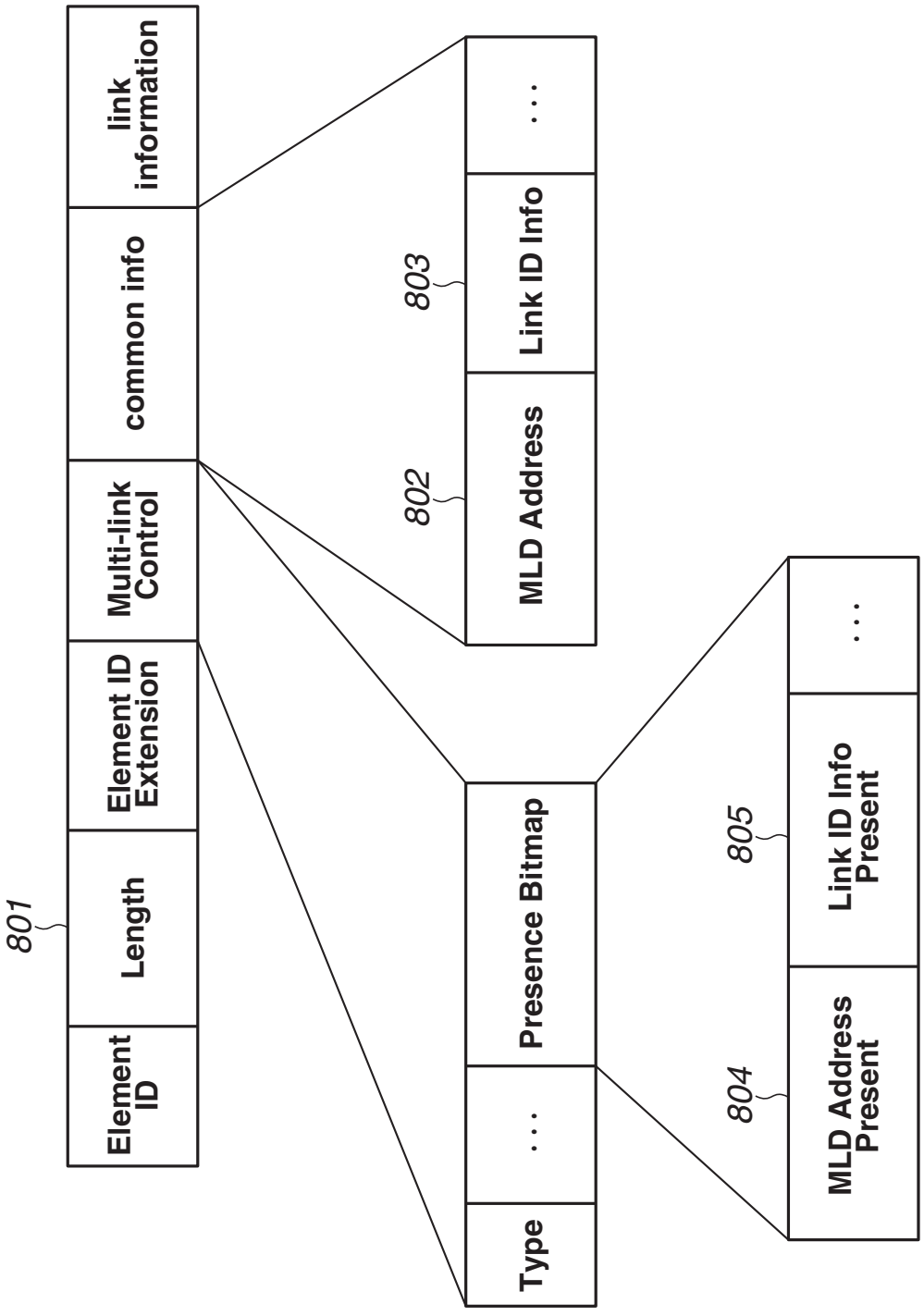

801
Element ID
Length
Element ID Extension
Multi-link Control
common info
link information
Type
...
Presence Bitmap
802
MLD Address
803
Link ID Info
...
804
MLD Address Present
805
Link ID Info Present
...

FIG.9

EHT Action Value	Meaning
0	TID-To-Link Mapping Request
1	TID-To-Link Mapping Response
2	TID-To-Link Mapping Teardown
3	NSEP Priority Access Enable Request
4	NSEP Priority Access Enable Response
5	NSEP Priority Access Teardown
6	Remove link Request
7	Remove link Response
8	Change link Request
9	Change link Response

FIG.10

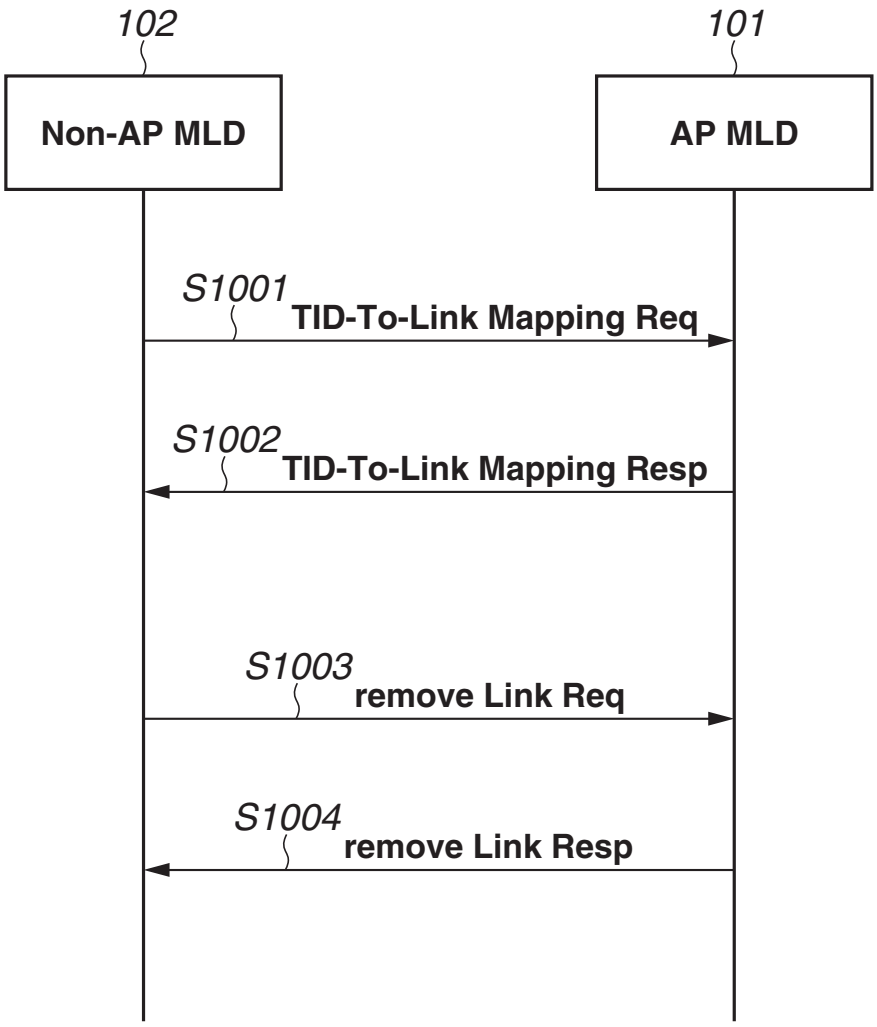

102
101
Non-AP MLD
AP MLD
S1001
TID-To-Link Mapping Req
S1002
TID-To-Link Mapping Resp
S1003
remove Link Req
S1004
remove Link Resp

FIG.11

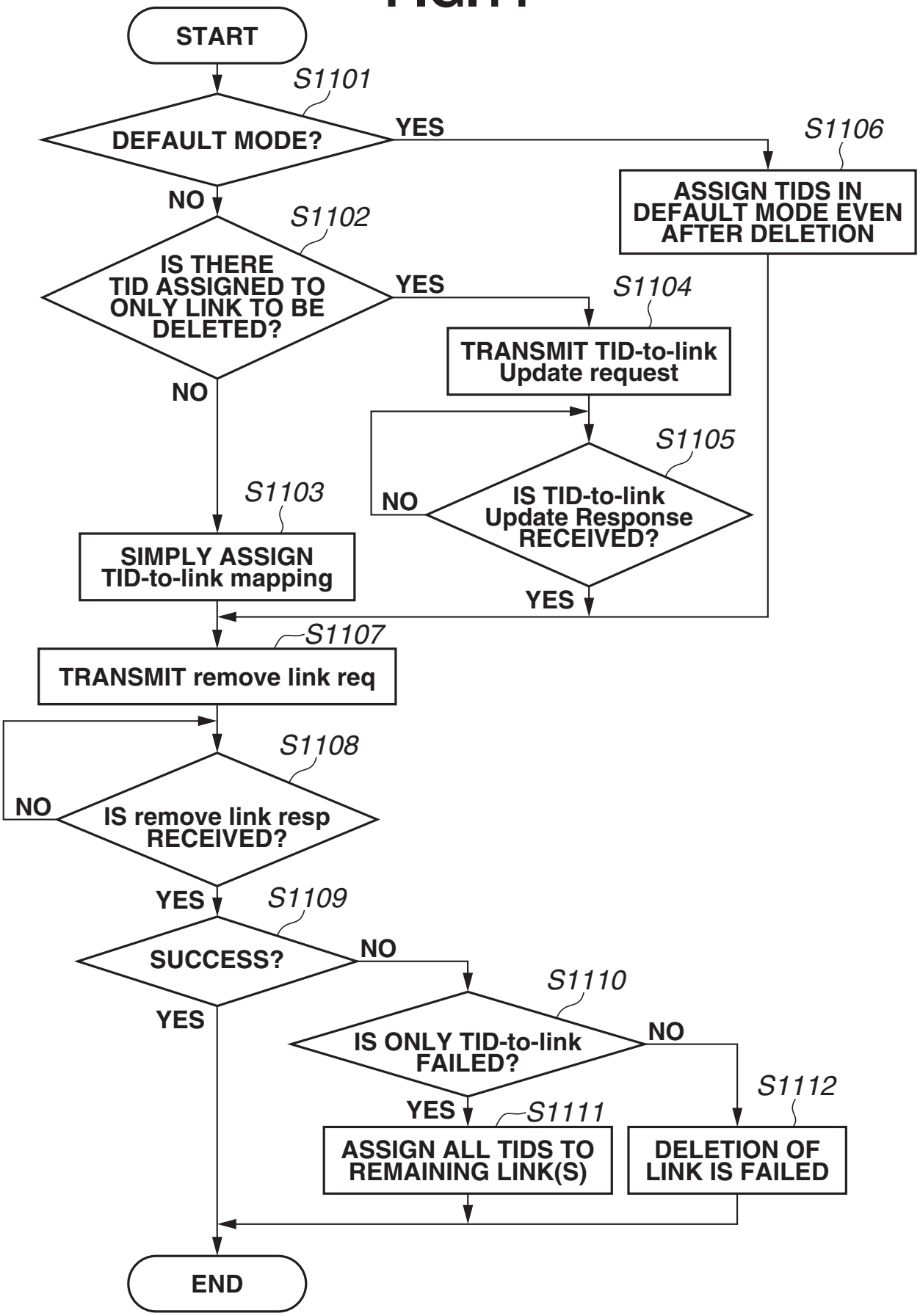

START
S1101
DEFAULT MODE?
YES
S1106
ASSIGN TIDS IN DEFAULT MODE EVEN AFTER DELETION
NO
S1102
IS THERE TID ASSIGNED TO ONLY LINK TO BE DELETED?
YES
S1104
TRANSMIT TID-to-link Update request
NO
S1105
NO
IS TID-to-link Update Response RECEIVED?
YES
S1103
SIMPLY ASSIGN TID-to-link mapping
S1107
TRANSMIT remove link req
S1108
NO
IS remove link resp RECEIVED?
YES
S1109
SUCCESS?
NO
S1110
IS ONLY TID-to-link FAILED?
NO
S1112
YES
S1111
ASSIGN ALL TIDS TO REMAINING LINK(S)
DELETION OF LINK IS FAILED
YES
END

FIG.12

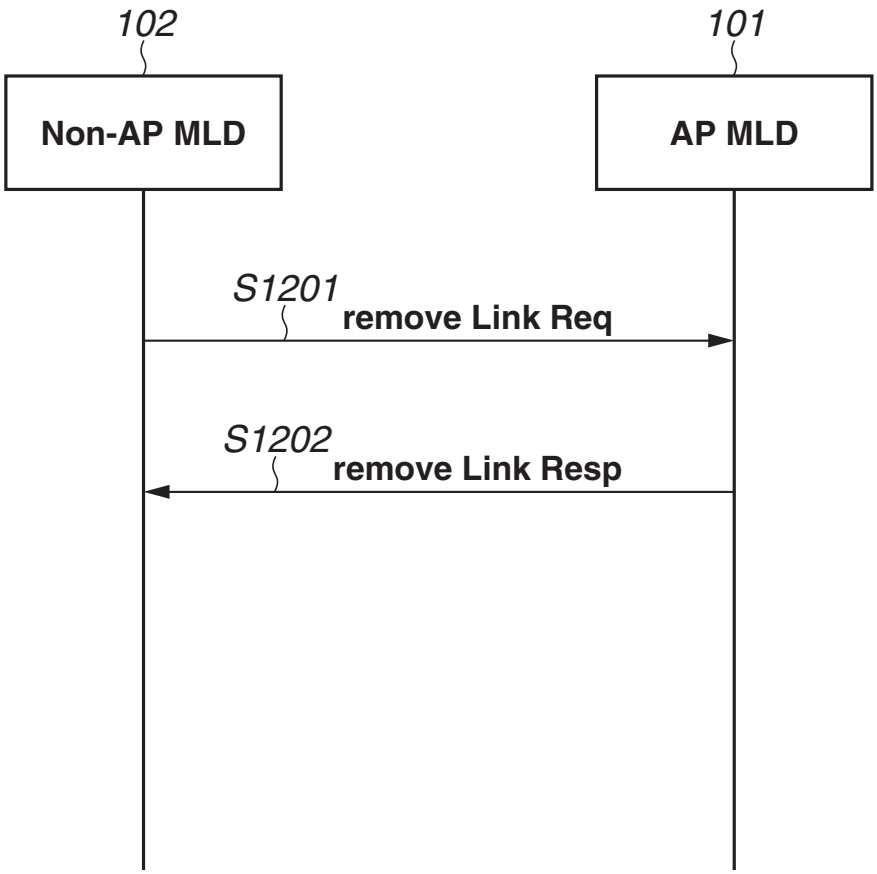

102
101
Non-AP MLD
AP MLD
S1201
remove Link Req
S1202
remove Link Resp

FIG.13

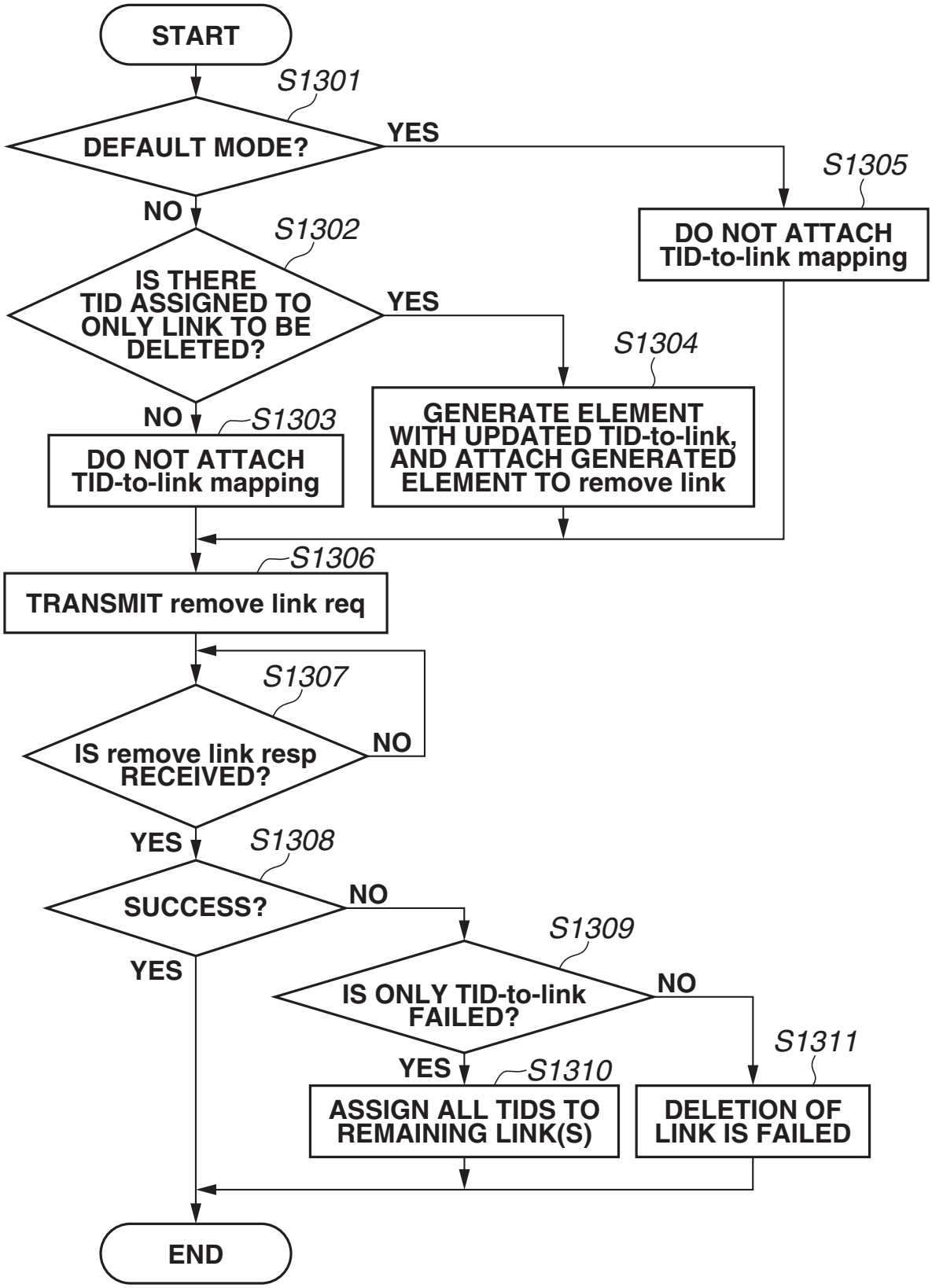
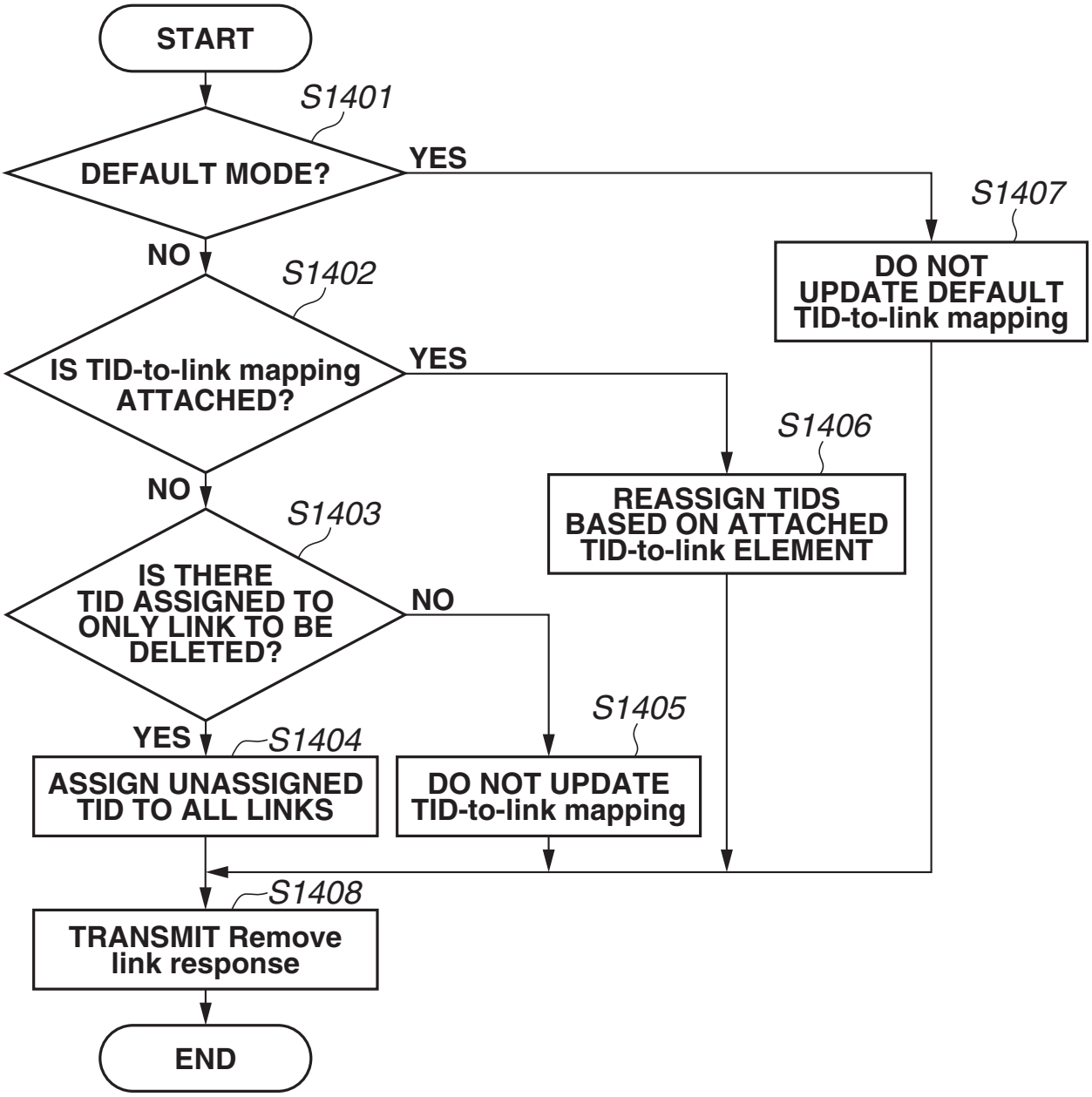

START
S1301
DEFAULT MODE?
YES
S1305
DO NOT ATTACH TID-to-link mapping
NO
S1302
IS THERE TID ASSIGNED TO ONLY LINK TO BE DELETED?
YES
S1304
GENERATE ELEMENT WITH UPDATED TID-to-link, AND ATTACH GENERATED ELEMENT TO remove link
NO
S1303
DO NOT ATTACH TID-to-link mapping
S1306
TRANSMIT remove link req
S1307
IS remove link resp RECEIVED?
NO
YES
S1308
SUCCESS?
NO
S1309
IS ONLY TID-to-link FAILED?
NO
S1311
DELETION OF LINK IS FAILED
YES
S1310
ASSIGN ALL TIDS TO REMAINING LINK(S)
YES
END

FIG.14


START
S1401
DEFAULT MODE?
YES
S1407
DO NOT UPDATE DEFAULT TID-to-link mapping
NO
S1402
IS TID-to-link mapping ATTACHED?
YES
S1406
REASSIGN TIDS BASED ON ATTACHED TID-to-link ELEMENT
NO
S1403
IS THERE TID ASSIGNED TO ONLY LINK TO BE DELETED?
NO
S1405
DO NOT UPDATE TID-to-link mapping
YES
S1404
ASSIGN UNASSIGNED TID TO ALL LINKS
S1408
TRANSMIT Remove link response
END