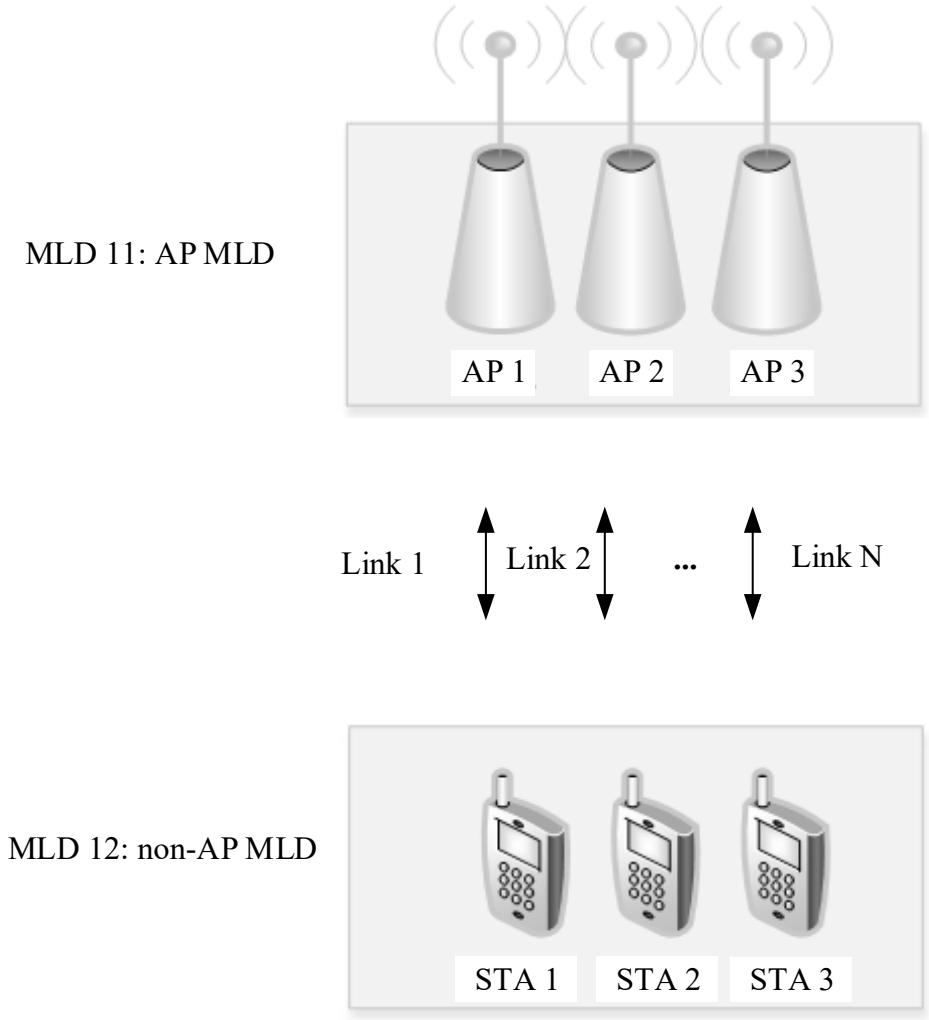

MLD 11: AP MLD
AP 1
AP 2
AP 3
Link 1
Link 2
...
Link N
MLD 12: non-AP MLD
STA 1
STA 2
STA 3

FIG. 1

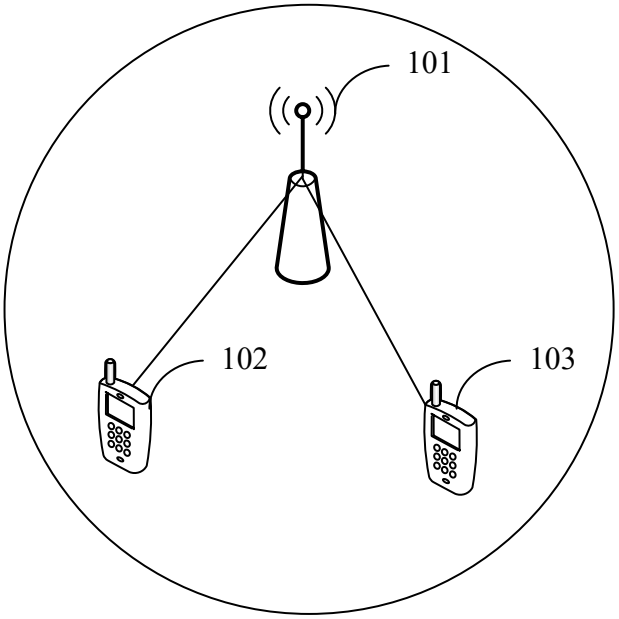


FIG. 2

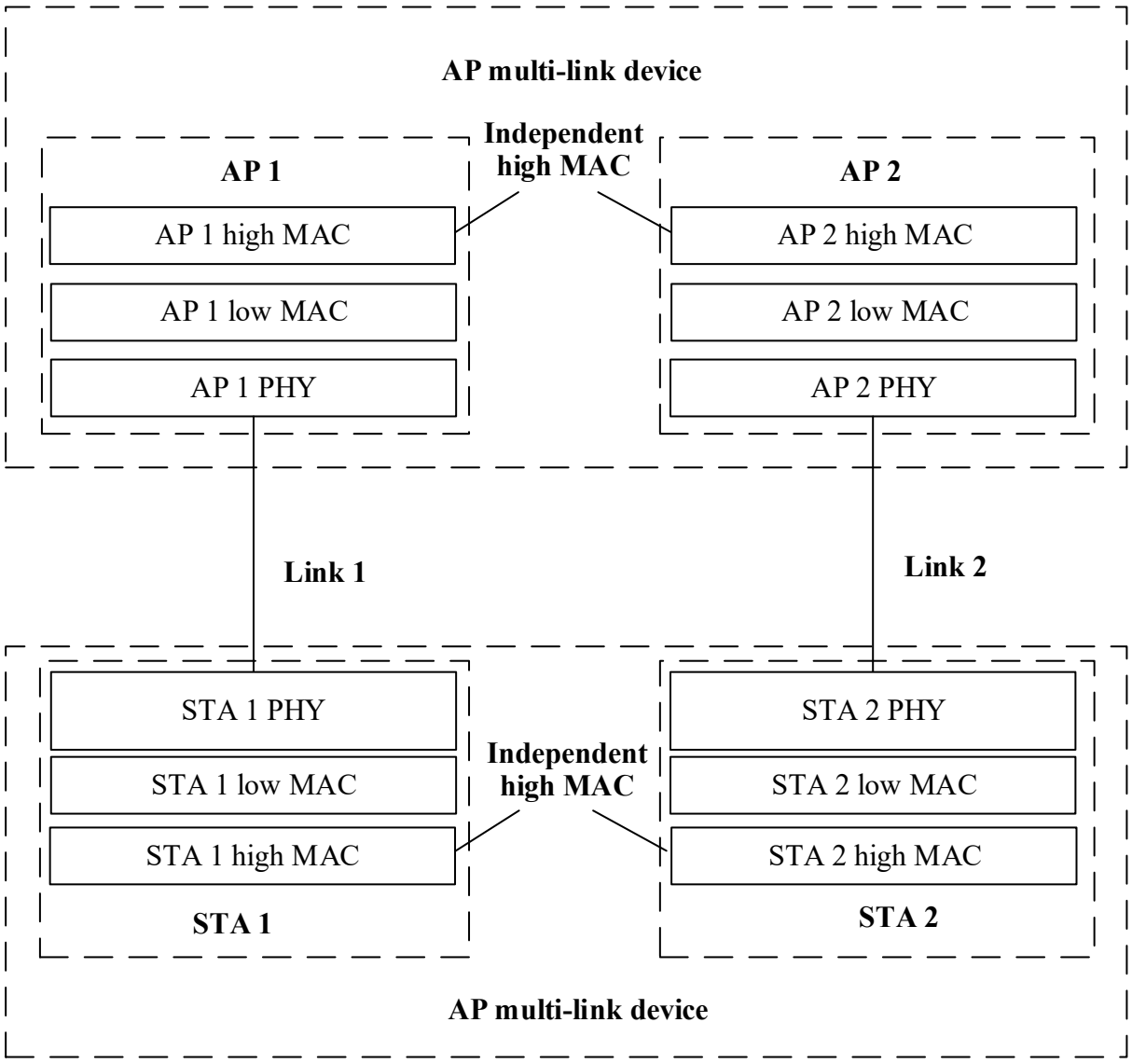

AP multi-link device
Independent high MAC
AP 1
AP 2
AP 1 high MAC
AP 1 low MAC
AP 1 PHY
AP 2 high MAC
AP 2 low MAC
AP 2 PHY
Link 1
Link 2
STA 1 PHY
STA 1 low MAC
STA 1 high MAC
Independent high MAC
STA 2 PHY
STA 2 low MAC
STA 2 high MAC
STA 1
STA 2
AP multi-link device

FIG. 3(a)

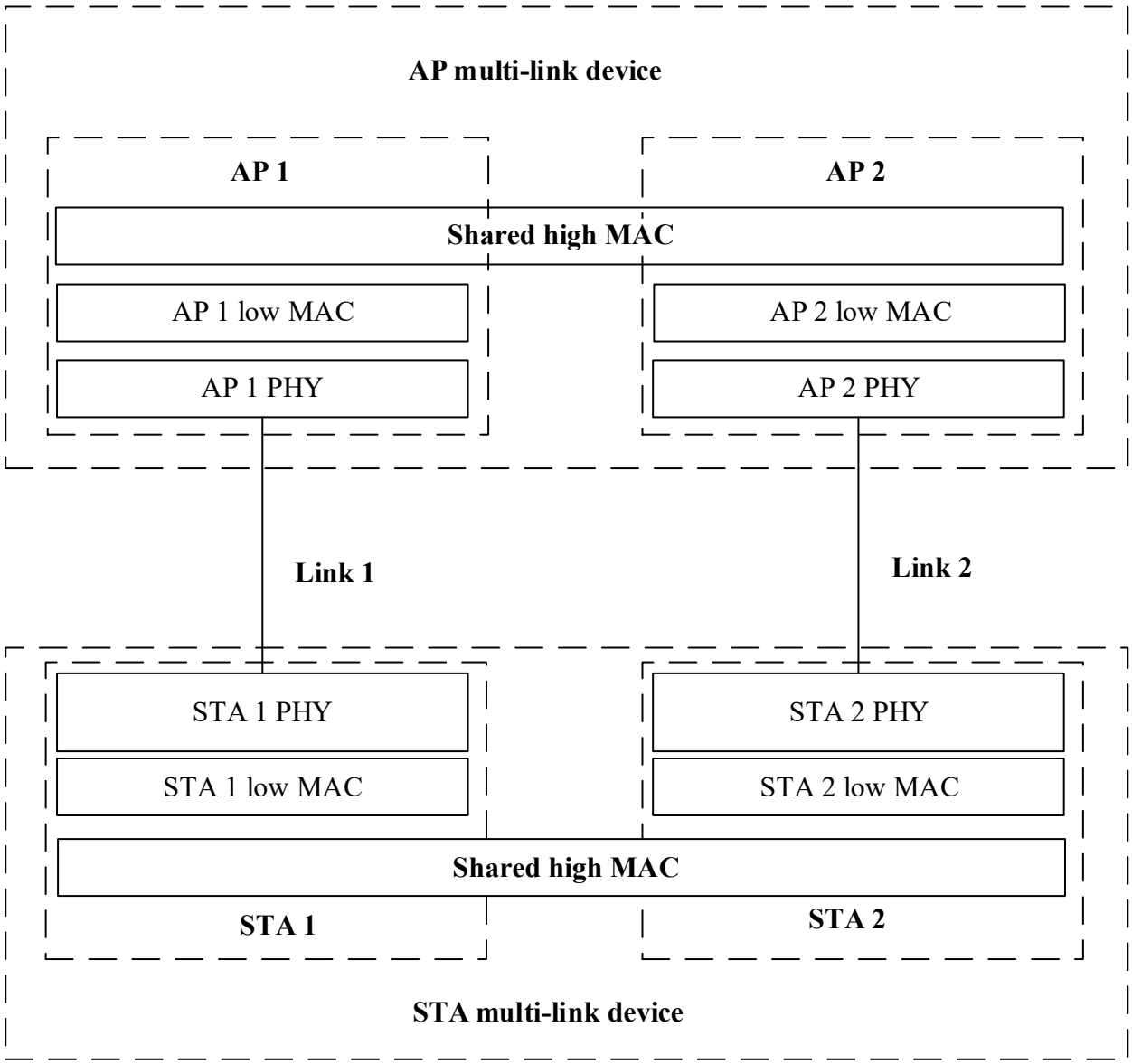

AP multi-link device
AP 1
AP 2
Shared high MAC
AP 1 low MAC
AP 2 low MAC
AP 1 PHY
AP 2 PHY
Link 1
Link 2
STA 1 PHY
STA 2 PHY
STA 1 low MAC
STA 2 low MAC
Shared high MAC
STA 1
STA 2
STA multi-link device

FIG. 3(b)

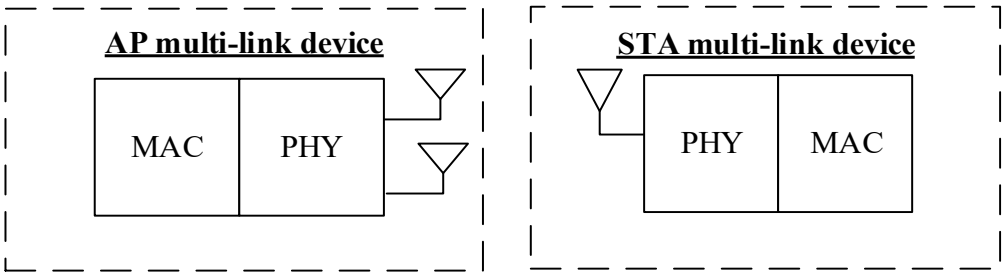

AP multi-link device
MAC
PHY
STA multi-link device
PHY
MAC

FIG. 3(c)

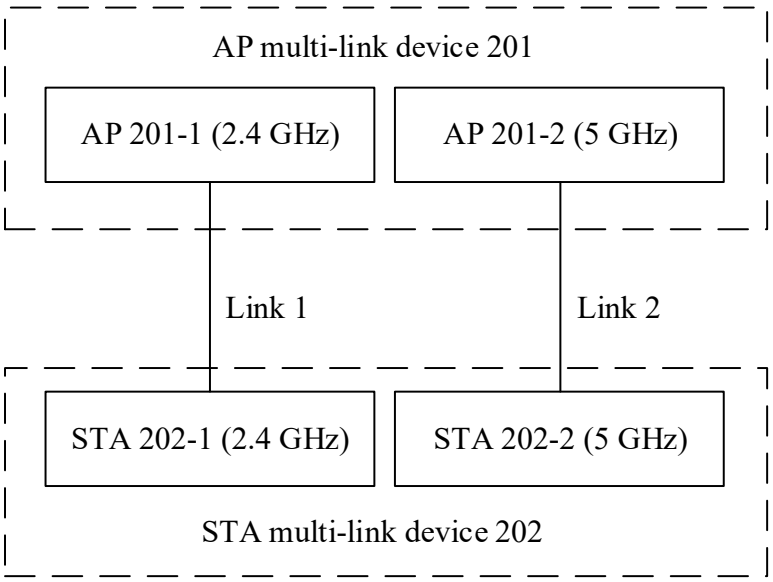

AP multi-link device 201
AP 201-1 (2.4 GHz)
AP 201-2 (5 GHz)
Link 1
Link 2
STA 202-1 (2.4 GHz)
STA 202-2 (5 GHz)
STA multi-link device 202

FIG. 4(a)

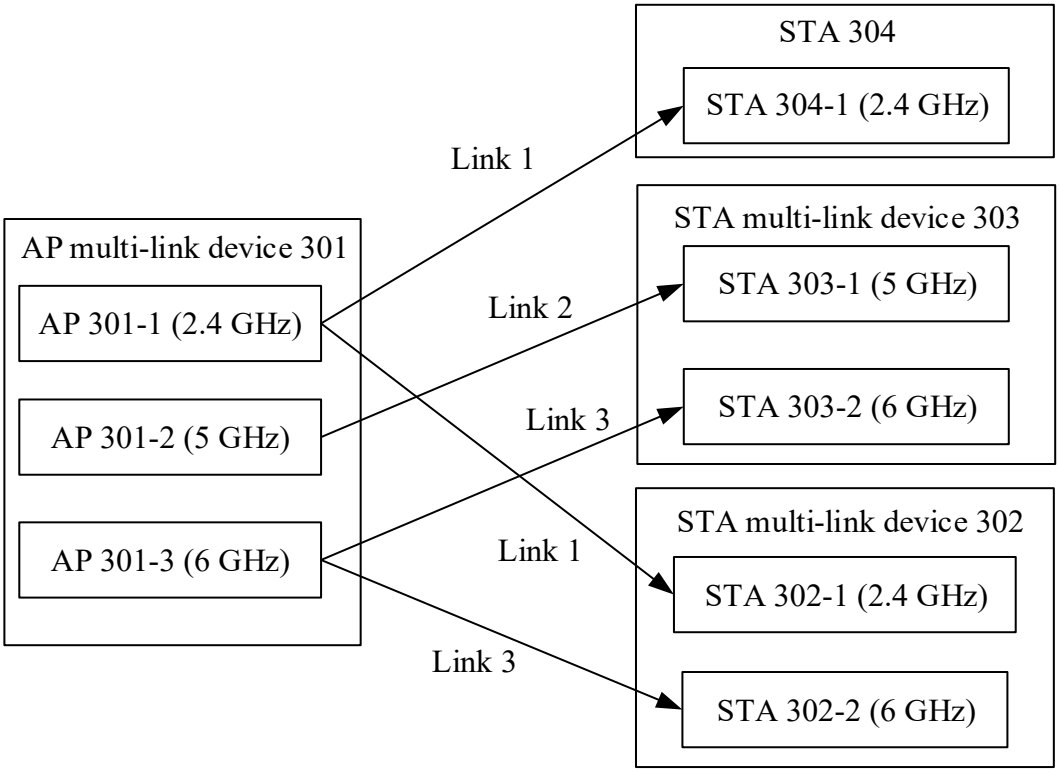

STA 304
STA 304-1 (2.4 GHz)
Link 1
STA multi-link device 303
AP multi-link device 301
AP 301-1 (2.4 GHz)
Link 2
STA 303-1 (5 GHz)
AP 301-2 (5 GHz)
Link 3
STA 303-2 (6 GHz)
STA multi-link device 302
Link 1
AP 301-3 (6 GHz)
STA 302-1 (2.4 GHz)
Link 3
STA 302-2 (6 GHz)

FIG. 4(b)

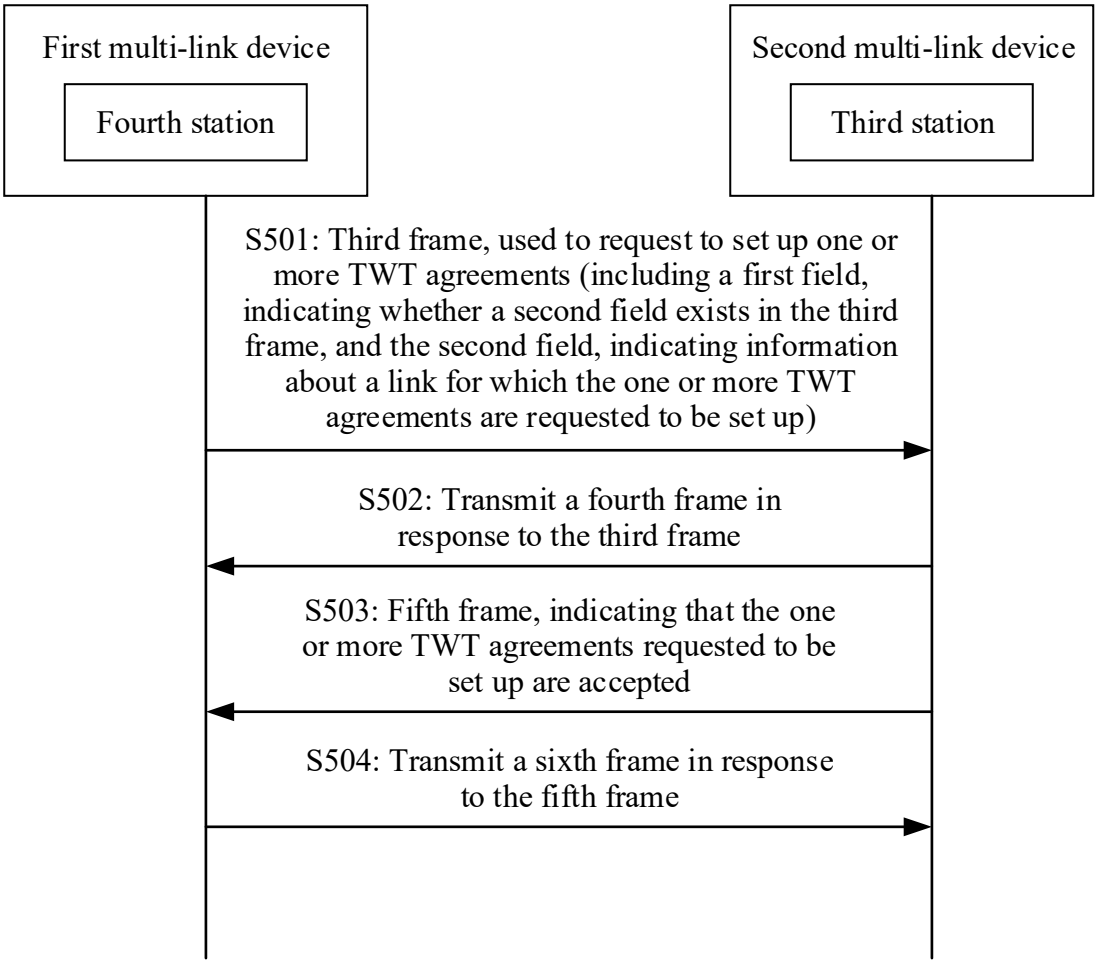

First multi-link device
Fourth station
Second multi-link device
Third station
S501: Third frame, used to request to set up one or more TWT agreements (including a first field, indicating whether a second field exists in the third frame, and the second field, indicating information about a link for which the one or more TWT agreements are requested to be set up)
S502: Transmit a fourth frame in response to the third frame
S503: Fifth frame, indicating that the one or more TWT agreements requested to be set up are accepted
S504: Transmit a sixth frame in response to the fifth frame

FIG. 5

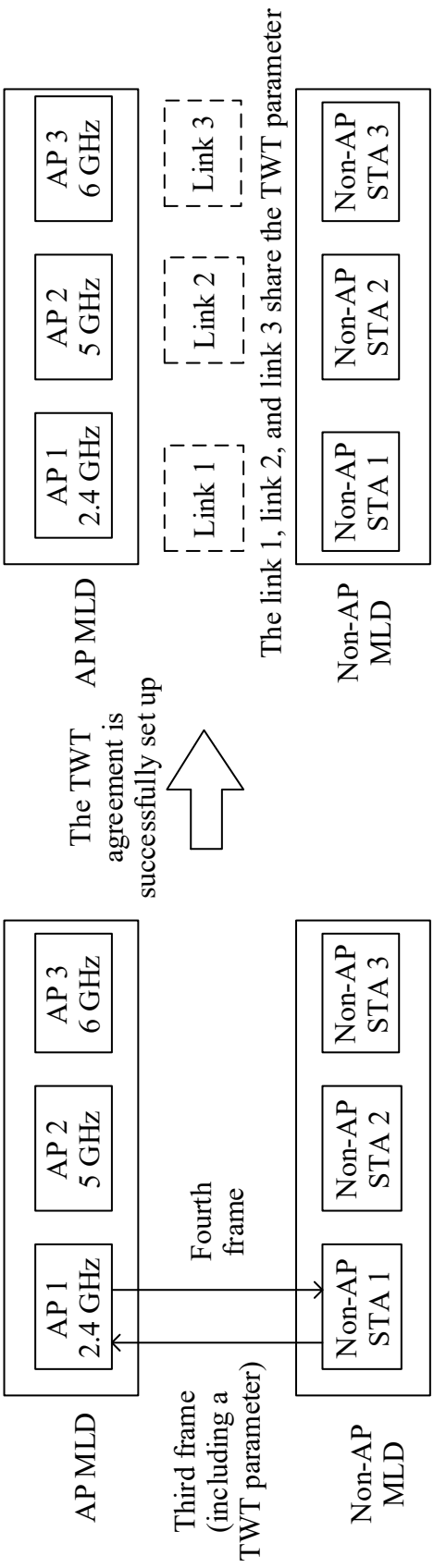

AP MLD
AP 1
2.4 GHz
AP 2
5 GHz
AP 3
6 GHz
Non-AP
MLD
Non-AP
STA 1
Non-AP
STA 2
Non-AP
STA 3
Third frame
(including a
TWT parameter)
Fourth
frame
The TWT
agreement is
successfully set up
Link 1
Link 2
Link 3
The link 1, link 2, and link 3 share the TWT parameter

FIG. 6

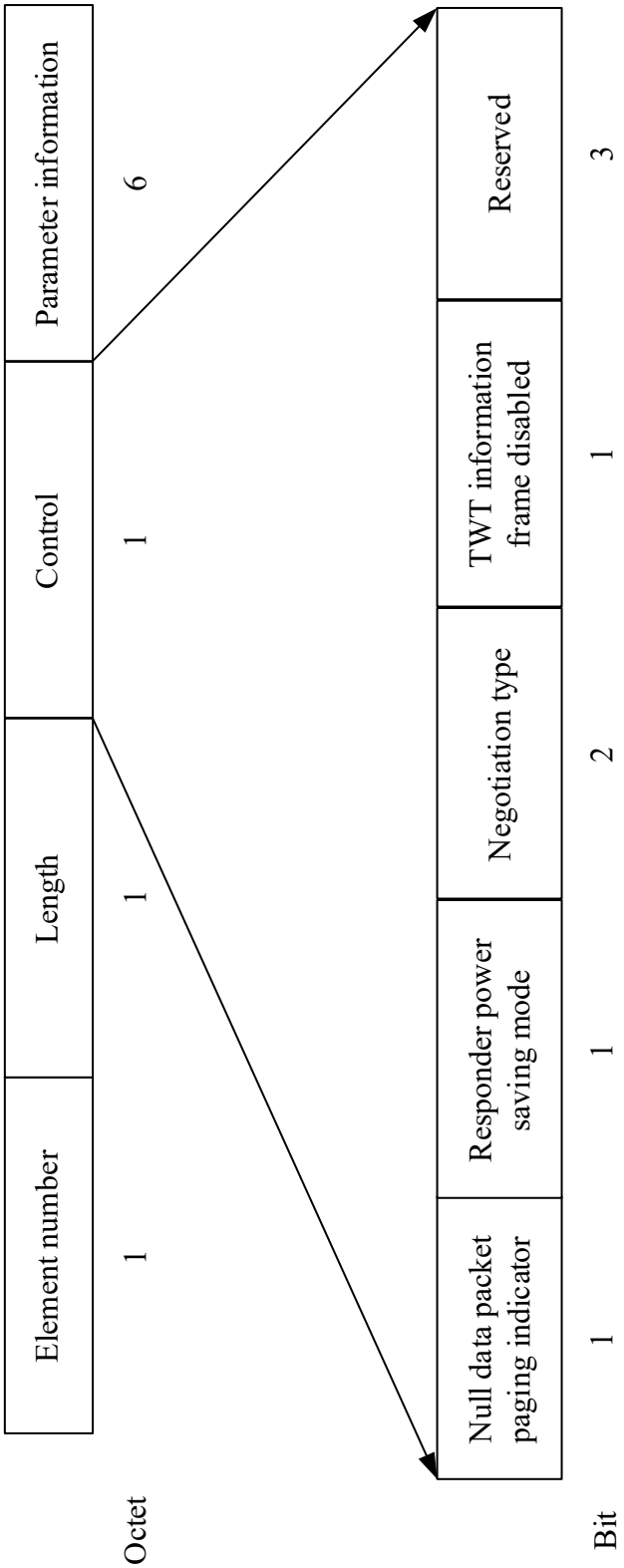

Element number
Length
Control
Parameter information
Octet
1
1
1
6
Null data packet paging indicator
Responder power saving mode
Negotiation type
TWT information frame disabled
Reserved
Bit
1
1
2
1
3

FIG. 7

	Request type	Target wake time	TWT group assignment	Nominal minimum TWT wake duration	TWT wake interval mantissa	TWT channel	NDP paging (optional)
Octet	2	0 or 8	0, 3, or 9	1	2	1	0 or 4

FIG. 8(a)

	Request type	Target wake time	Nominal minimum TWT wake duration	TWT wake interval mantissa	Broadcast TWT channel
Octet	2	2	1	2	2

FIG. 8(b)

	B0	B1 B3	B4	B5	B6	B7 B9	B10 B14	B15
	TWT request	TWT setup command	Trigger	Implicit	Flow type	TWT flow identifier	TWT wake interval exponent	TWT protection
Bit	1	3	1	1	1	3	5	1

FIG. 9

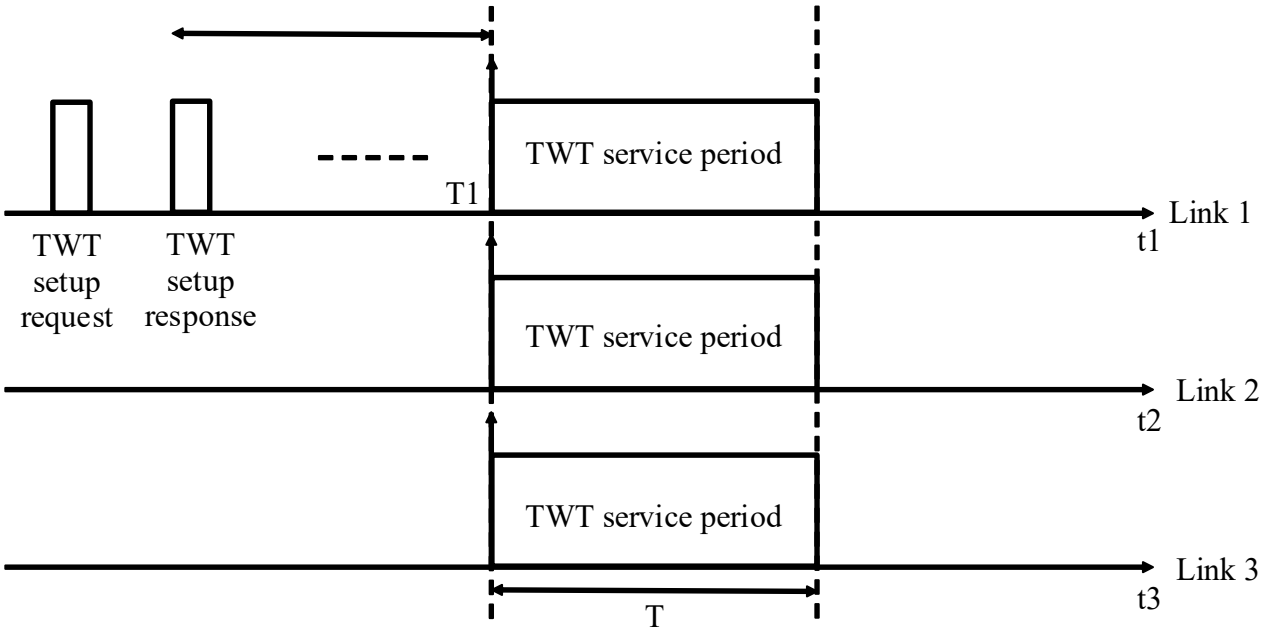

TWT service period
T1
Link 1
t1
TWT
setup
request
TWT
setup
response
TWT service period
Link 2
t2
TWT service period
Link 3
t3
T

FIG. 10

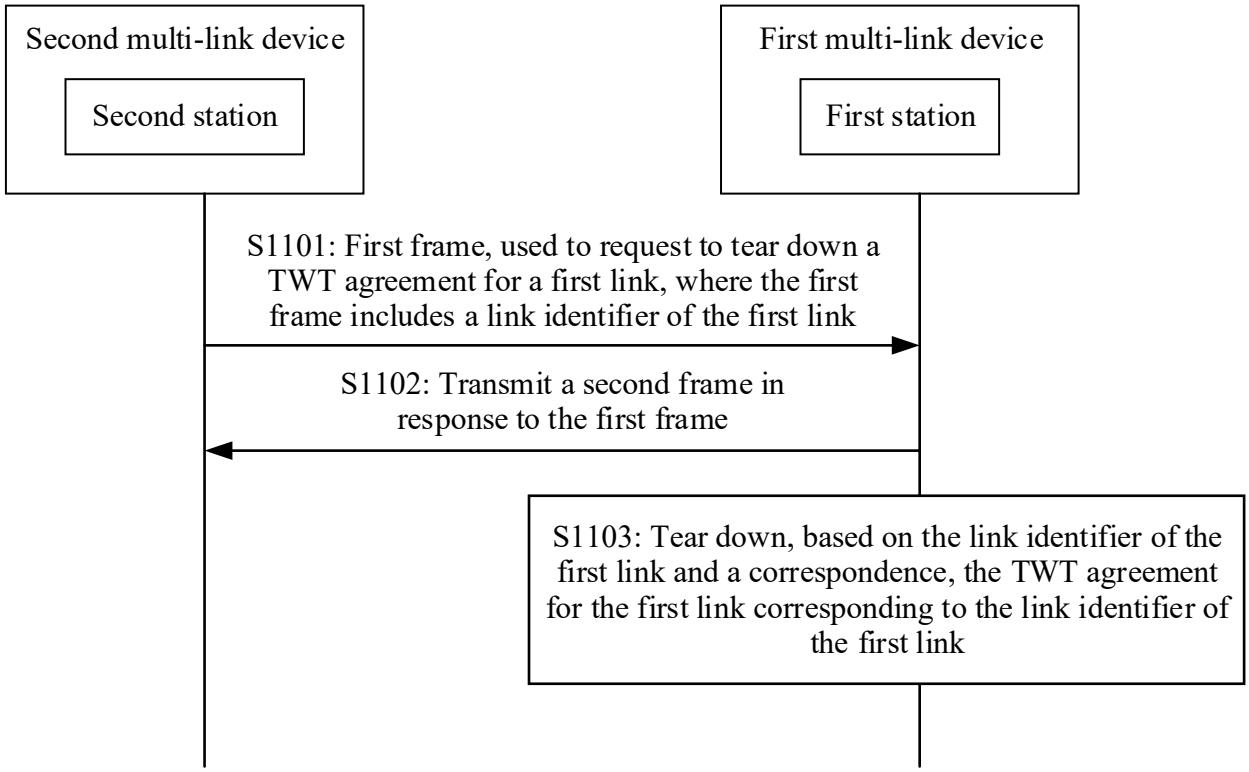

Second multi-link device
Second station
First multi-link device
First station
S1101: First frame, used to request to tear down a TWT agreement for a first link, where the first frame includes a link identifier of the first link
S1102: Transmit a second frame in response to the first frame
S1103: Tear down, based on the link identifier of the first link and a correspondence, the TWT agreement for the first link corresponding to the link identifier of the first link

FIG. 11

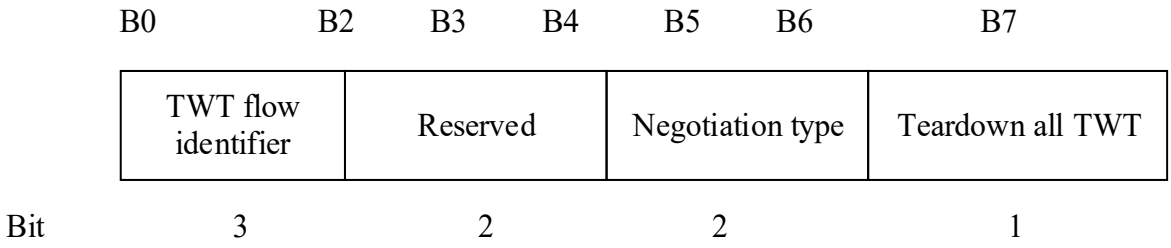

B0
B2
B3
B4
B5
B6
B7
TWT flow identifier
Reserved
Negotiation type
Teardown all TWT
Bit
3
2
2
1

FIG. 12

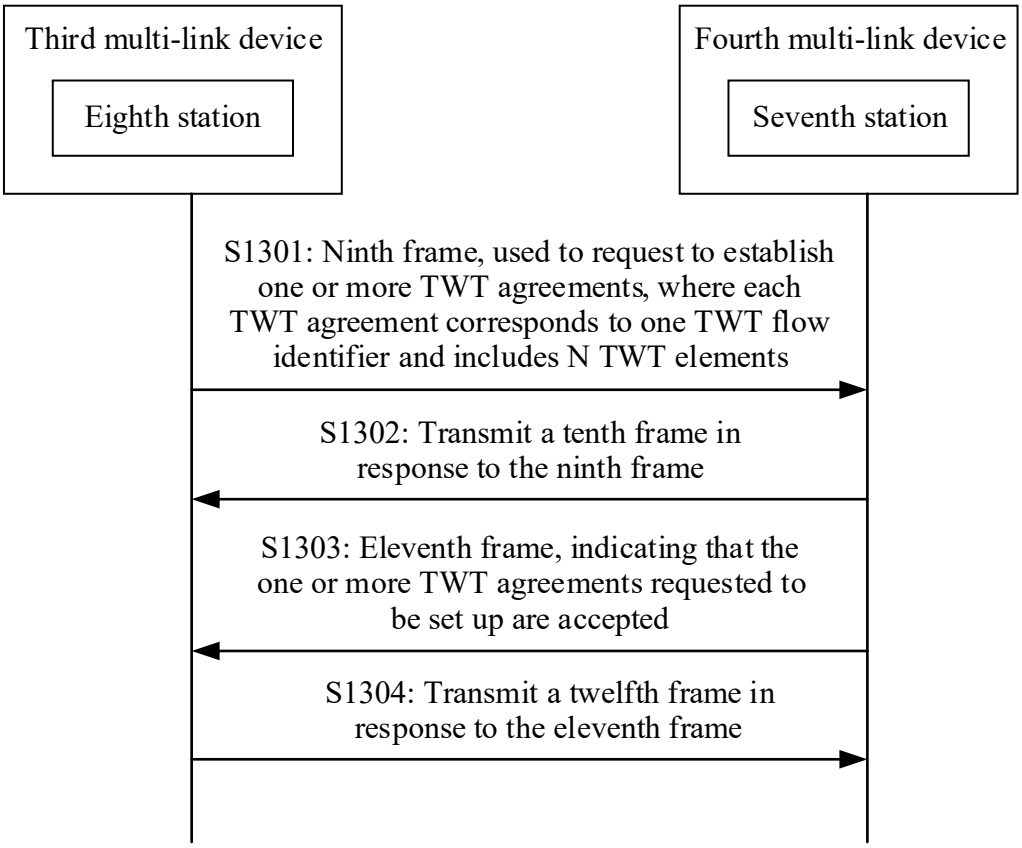

Third multi-link device
Eighth station
Fourth multi-link device
Seventh station
S1301: Ninth frame, used to request to establish one or more TWT agreements, where each TWT agreement corresponds to one TWT flow identifier and includes N TWT elements
S1302: Transmit a tenth frame in response to the ninth frame
S1303: Eleventh frame, indicating that the one or more TWT agreements requested to be set up are accepted
S1304: Transmit a twelfth frame in response to the eleventh frame

FIG. 13

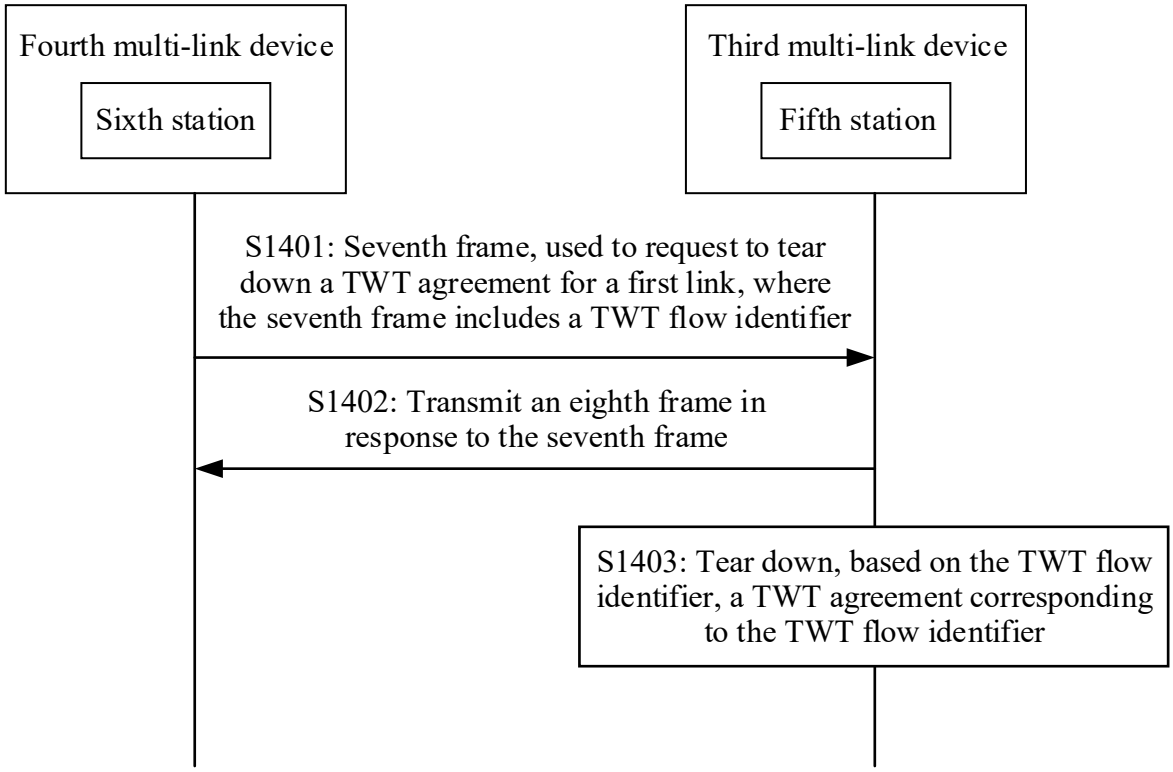

Fourth multi-link device
Sixth station
Third multi-link device
Fifth station
S1401: Seventh frame, used to request to tear down a TWT agreement for a first link, where the seventh frame includes a TWT flow identifier
S1402: Transmit an eighth frame in response to the seventh frame
S1403: Tear down, based on the TWT flow identifier, a TWT agreement corresponding to the TWT flow identifier

FIG. 14

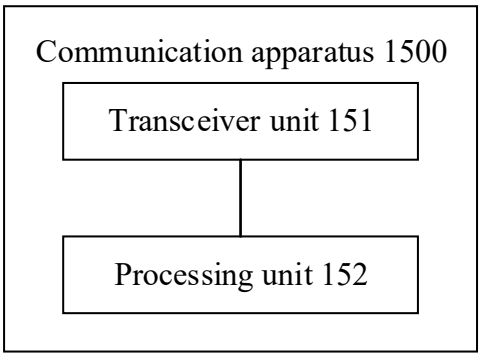

Communication apparatus 1500
Transceiver unit 151
Processing unit 152

FIG. 15

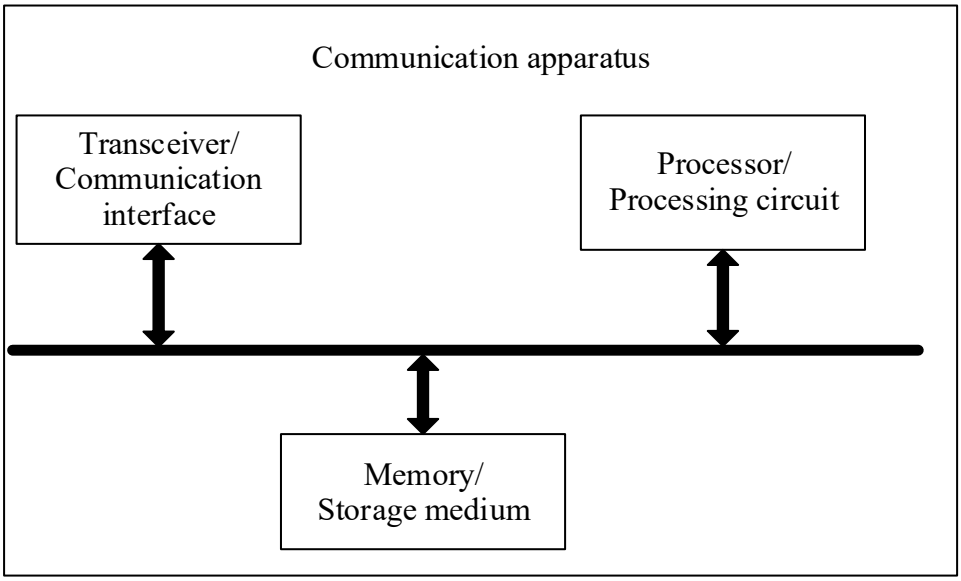

Communication apparatus
Transceiver/
Communication
interface
Processor/
Processing circuit
Memory/
Storage medium

FIG. 16