

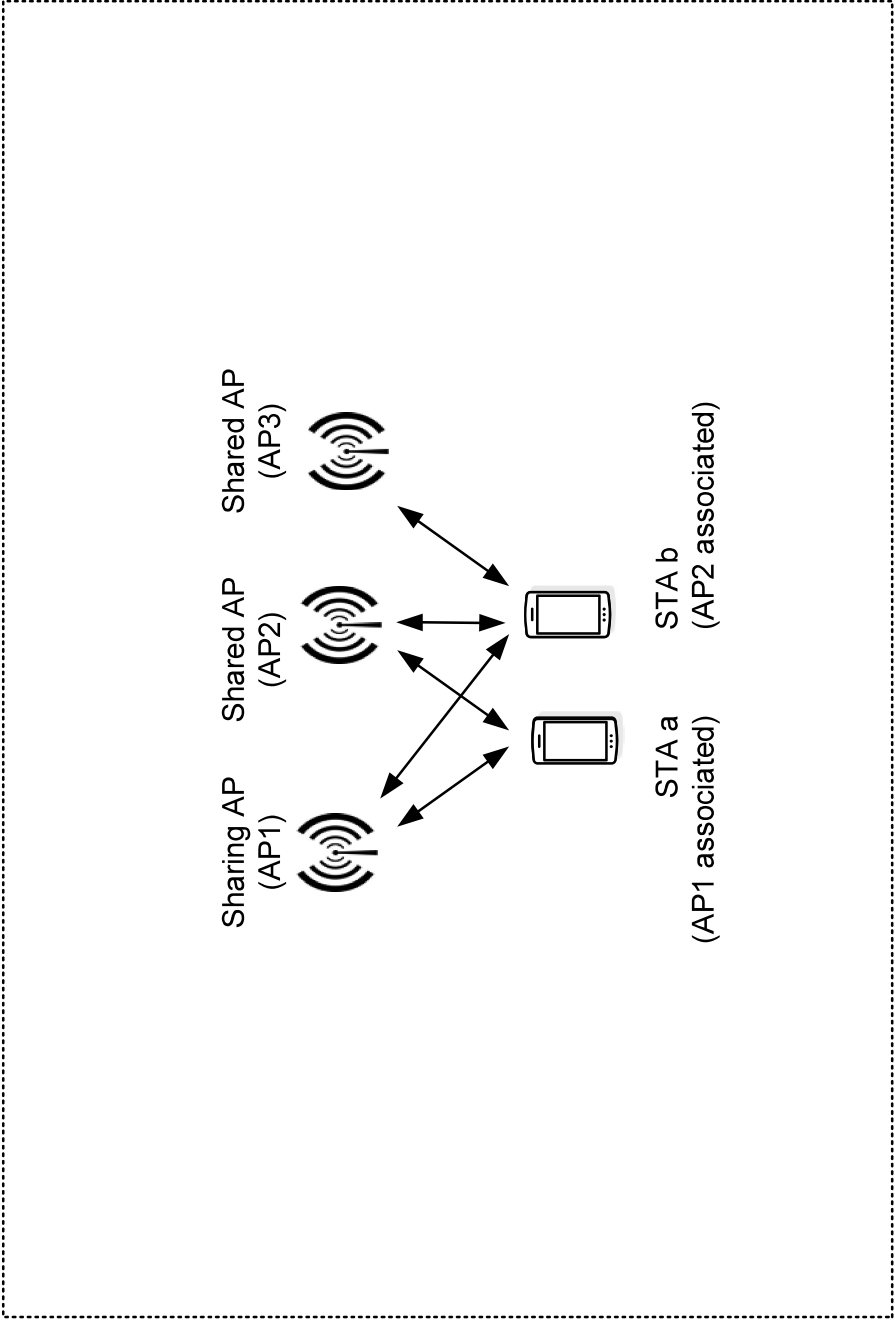


FIG. 1

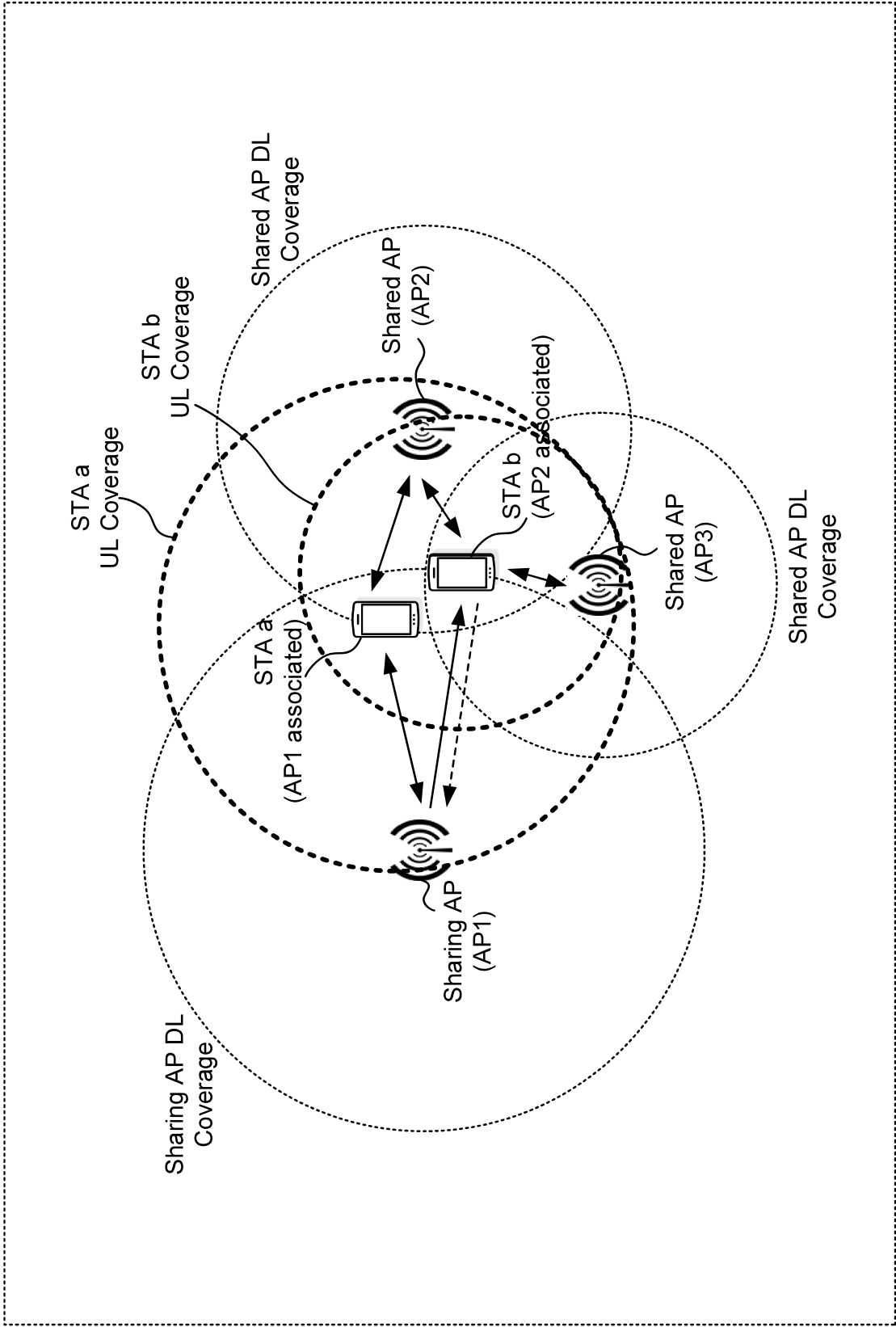


FIG. 2

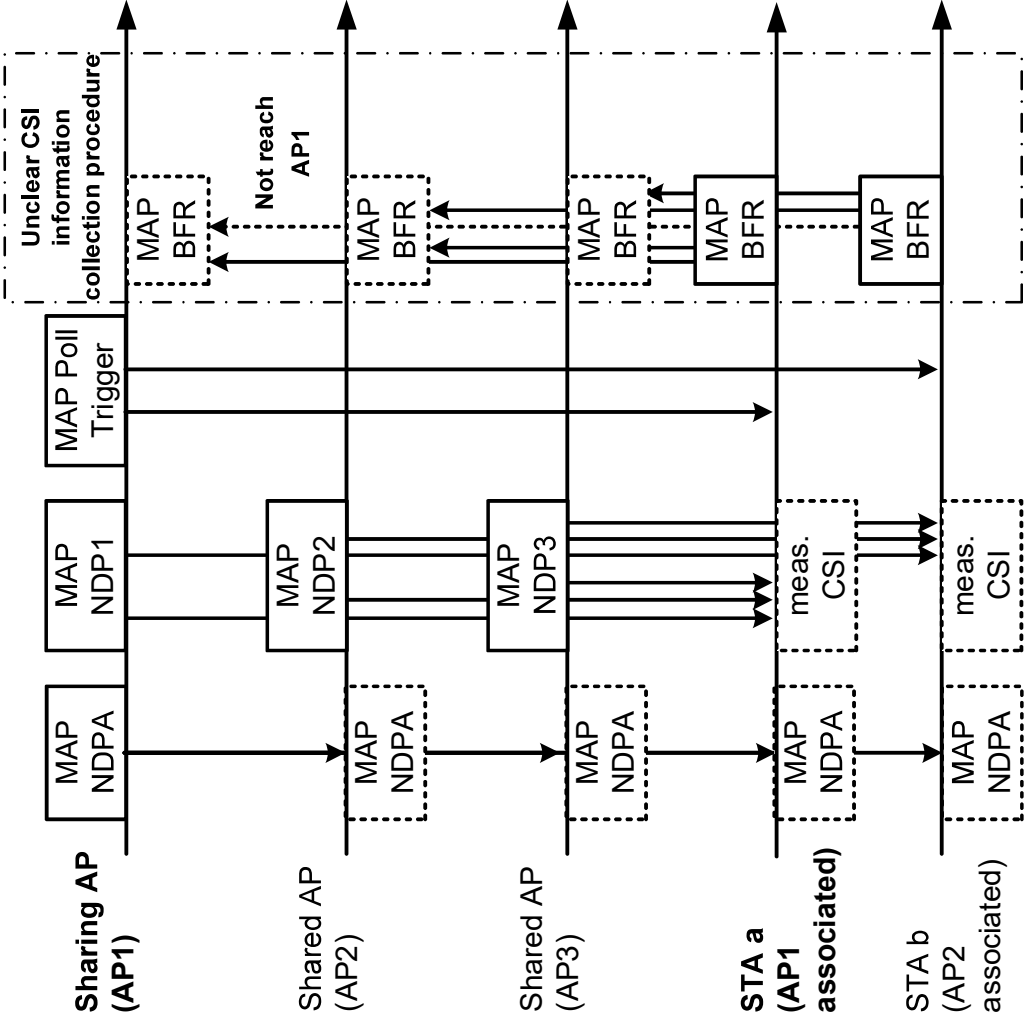


FIG. 3



FIG. 4

100

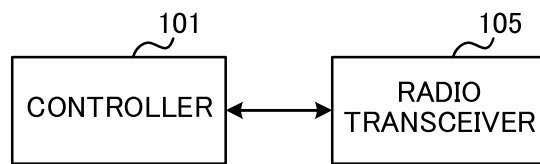


FIG. 5

100

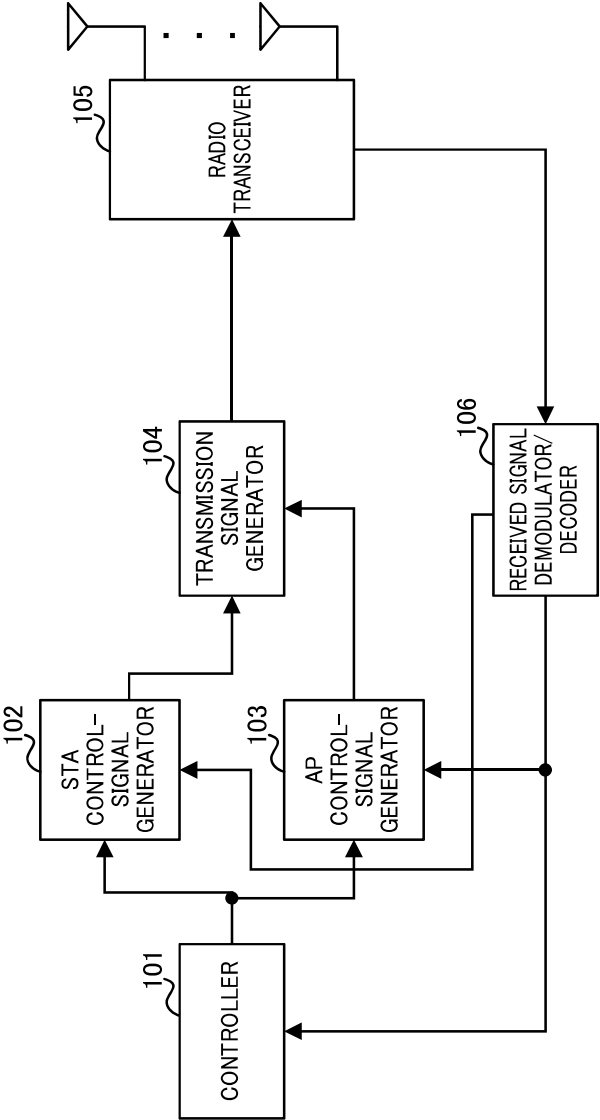


FIG. 6

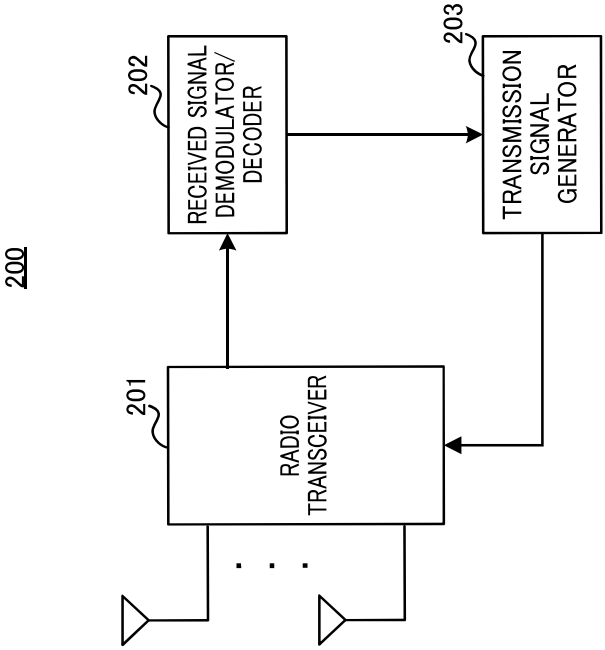


FIG. 7

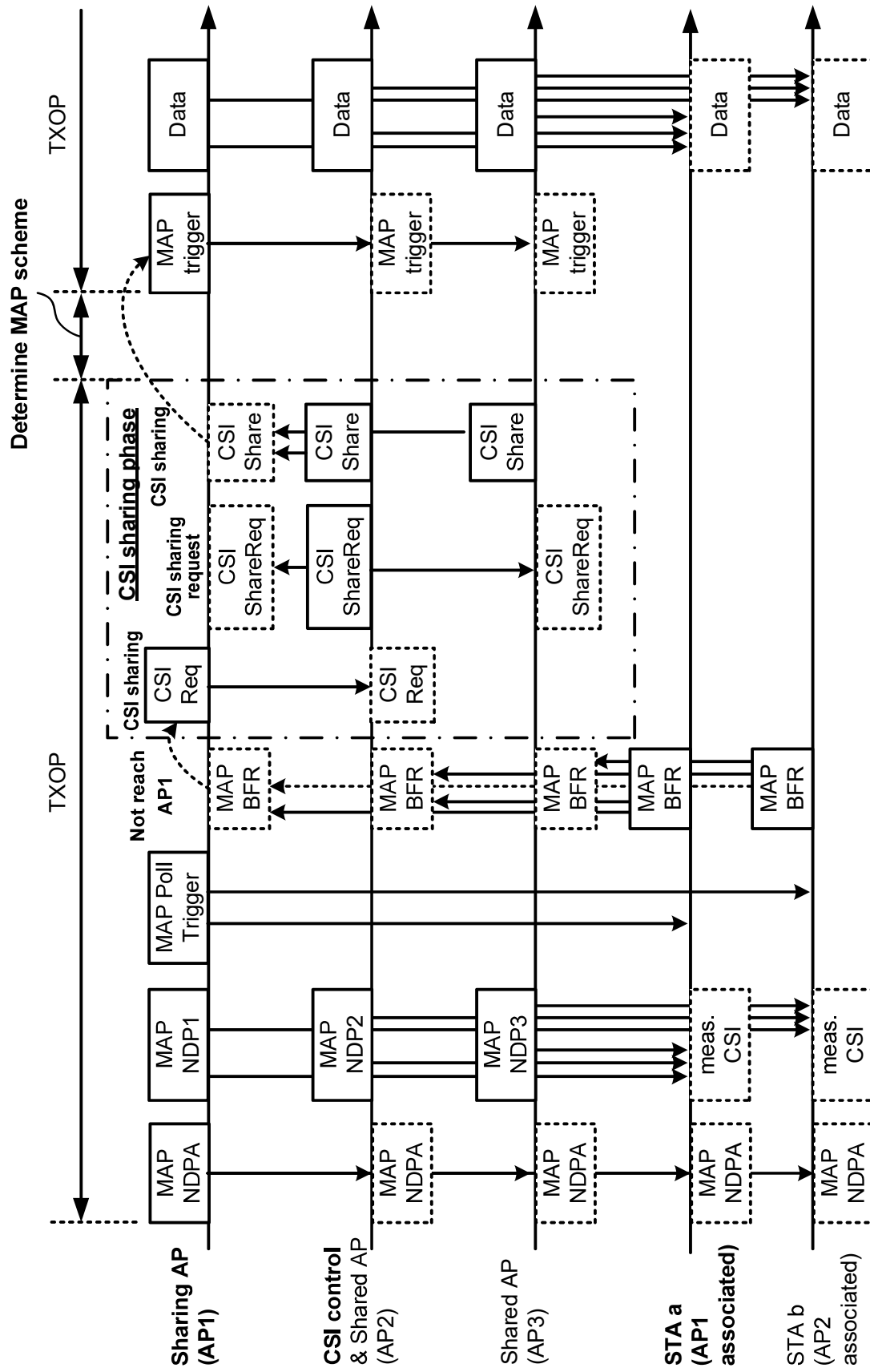


FIG. 8

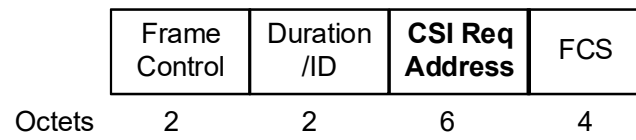


FIG. 9

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000- 0001	CSI Req (CSI request)
01	Control	0001	CSI ShareReq (CSI sharing request)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	CSI Share (CSI sharing)

FIG. 10

Trigger Type subfield value	Trigger frame variant
0	Basic
1	Beamforming Report Poll (BFRP)
2	MU-BAR
3	MU-RTS
4	Buffer Status Report Poll (BSRP)
5	GCR MU-BAR
6	Bandwidth Query Report Poll (BQRP)
7	NDP Feedback Report Poll (NFRP)
8	CSI Req (CSI request)
9	CSI ShareReq (CSI sharing request)
10-15	Reserved

FIG. 11

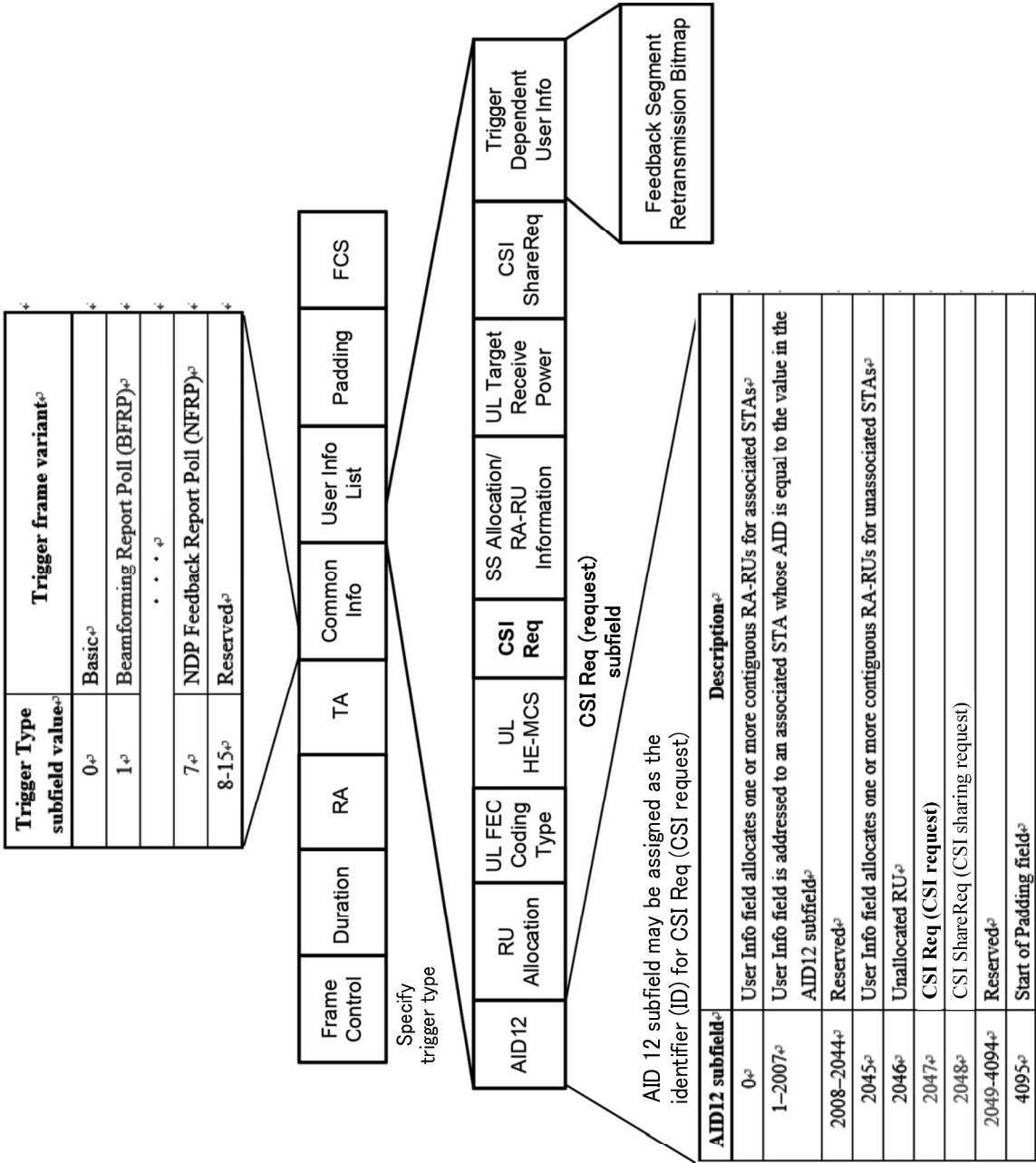


FIG. 12

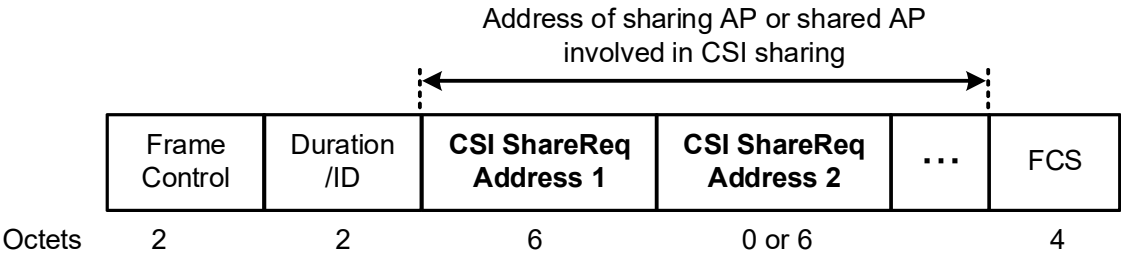


FIG. 13

Type value B3 B2	Type Description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000 0001	CSI Req (CSI request)
01	Control	0001	CSI ShareReq (CSI sharing request)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	CSI Share (CSI sharing)

FIG. 14

Trigger Type subfield value	Trigger frame variant
0	Basic
1	Beamforming Report Poll (BFRP)
2	MU-BAR
3	MU-RTS
4	Buffer Status Report Poll (BSRP)
5	GCR MU-BAR
6	Bandwidth Query Report Poll (BQRP)
7	NDP Feedback Report Poll (NFRP)
8	CSI Req (CSI request)
9	CSI ShareReq (CSI sharing request)
10-15	Reserved

FIG. 15

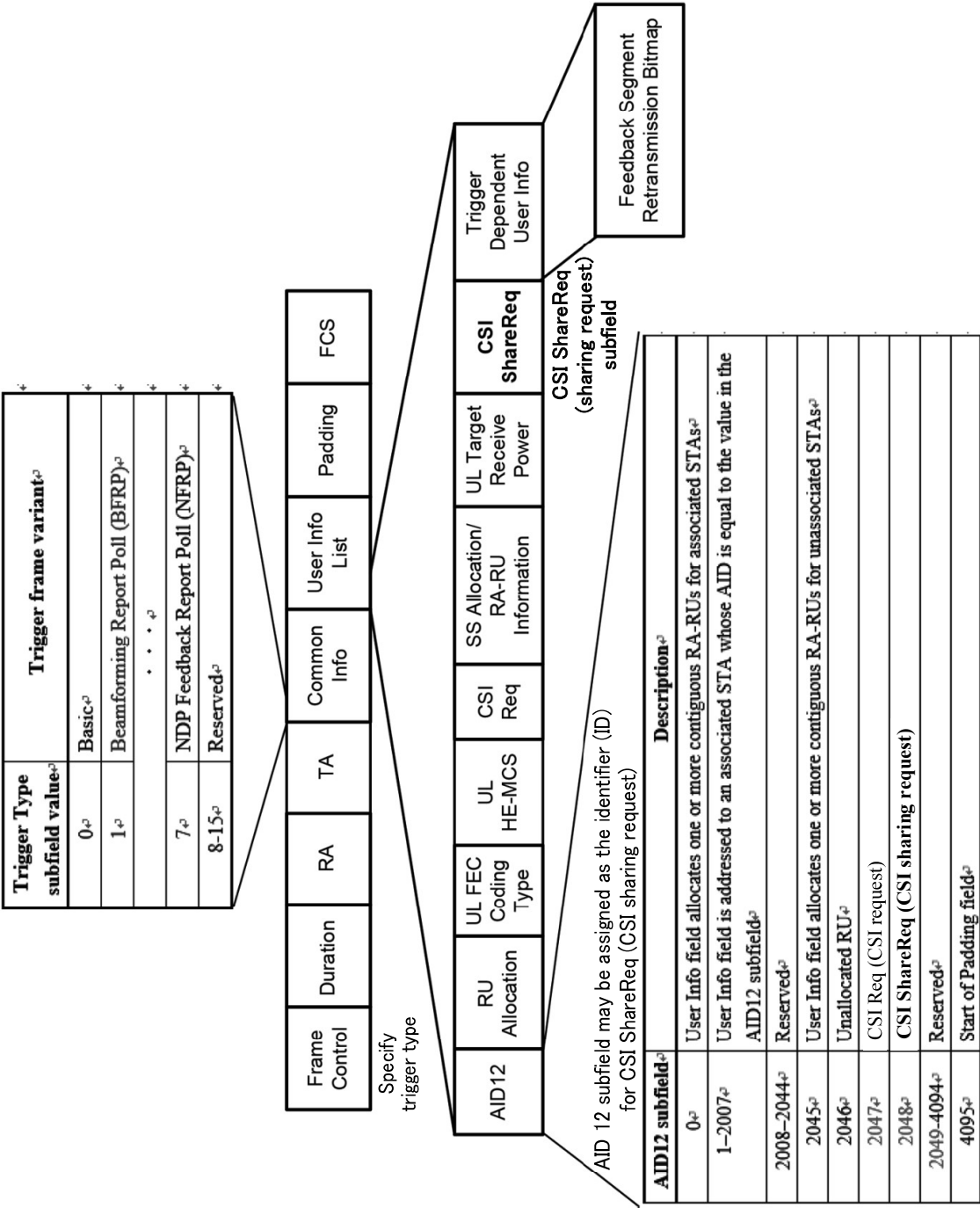


FIG. 16

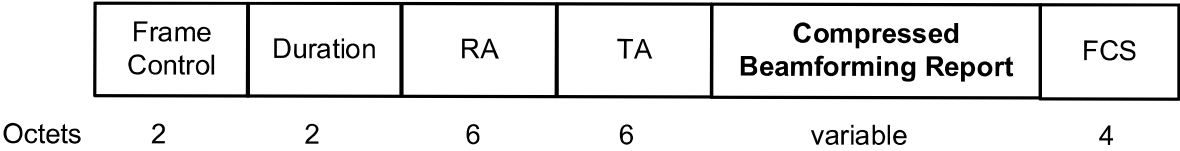


FIG. 17

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000-0001	CSI Req (CSI request)
01	Control	0001	CSI ShareReq (CSI sharing request)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	CSI Share (CSI sharing)

FIG. 18

Table 9-526b—HE Compressed Beamforming/CQI frame Action field format⁴

Order ⁴	Information ⁴
1 ⁴	Category ⁴
2 ⁴	HE Action ⁴
3 ⁴	HE MIMO Control (see 9.4.1.64 (HE MIMO Control field)) ⁴
4 ⁴	HE Compressed Beamforming Report (see 9.4.1.65 (HE Compressed Beamforming Report field)) ⁴
5 ⁴	HE MU Exclusive Beamforming Report (see 9.4.1.66 (HE MU Exclusive Beamforming Report field)) ⁴
6 ⁴	HE CQI Report (see 9.4.1.67 (HE CQI Report field)) ⁴

Table 9-51—Category values⁴

Code ⁴	Meaning ⁴	See subclause ⁴	Robust ⁴	Group ⁴ addressed privacy ⁴
30 ⁴	HE ⁴	9.6.31 (HE Action frame details) ⁴	No ⁴	No ⁴
31 ⁴	Protected HE ⁴	9.6.32 (Protected HE Action frame details) ⁴	Yes ⁴	No ⁴

Table 9-526a—HE Action field values⁴

Value ⁴	Meaning ⁴
0 ⁴	HE Compressed Beamforming/CQI ⁴
1 ⁴	Quiet Time Period ⁴
2 ⁴	OP ⁴
3 ⁴	CSI Share (CSI sharing)
4-255 ⁴	Reserved ⁴

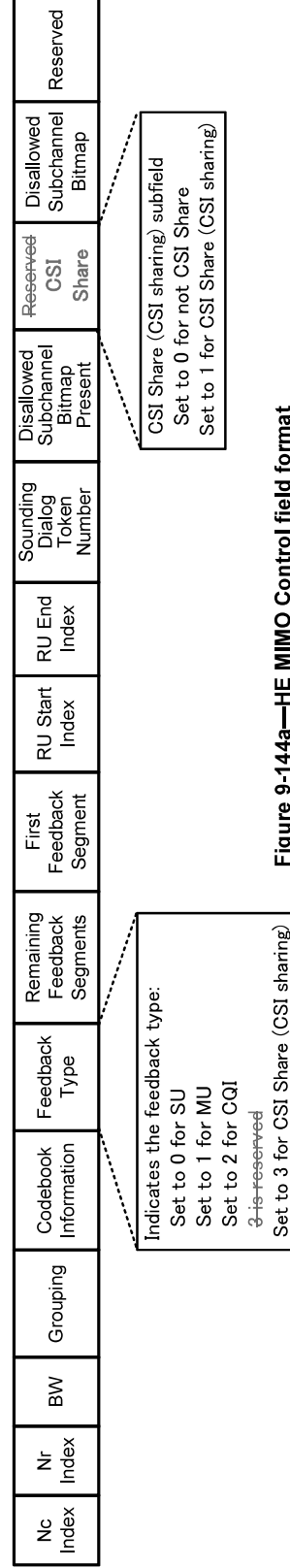


FIG. 19

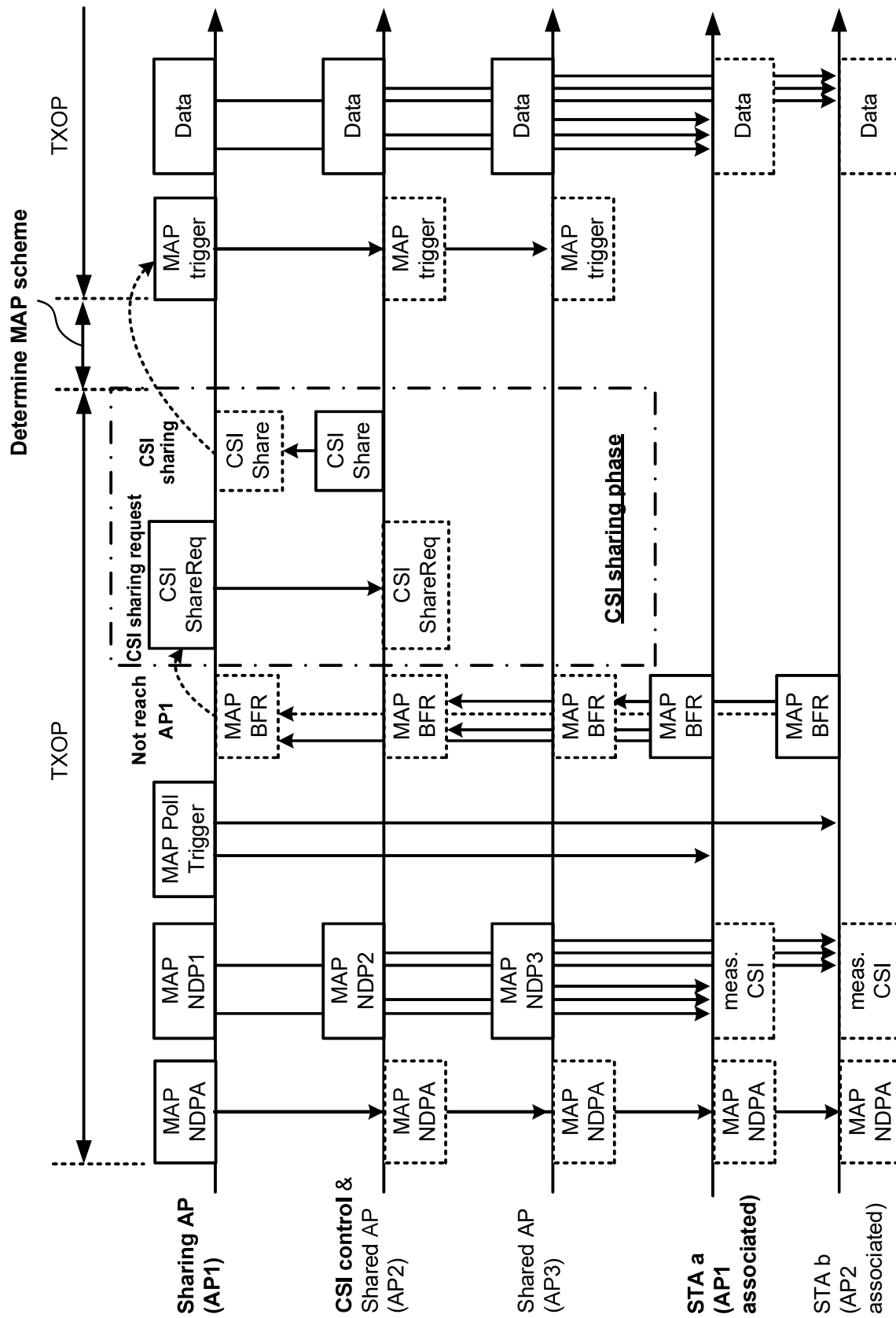


FIG. 20

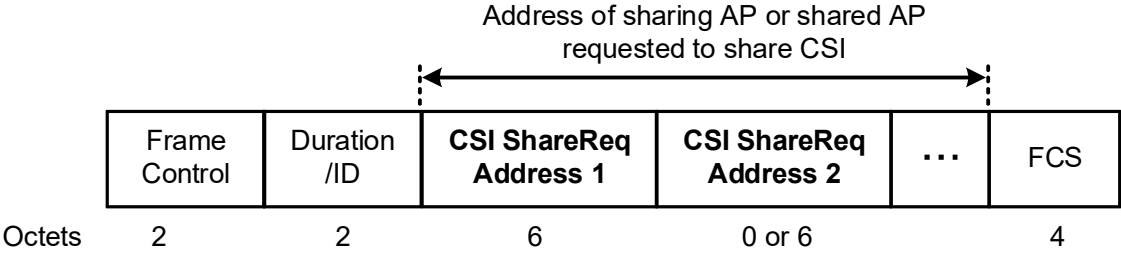


FIG. 21

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000 0001	CSI ShareReq (CSI sharing request)
01	Control	0001	CSI Share (CSI sharing)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	Reserved

FIG. 22

Trigger Type subfield value	Trigger frame variant
0	Basic
1	Beamforming Report Poll (BFRP)
2	MU-BAR
3	MU-RTS
4	Buffer Status Report Poll (BSRP)
5	GCR MU-BAR
6	Bandwidth Query Report Poll (BQRP)
7	NDP Feedback Report Poll (NFRP)
8	CSI ShareReq (CSI sharing request)
9	CSI Share (CSI sharing)
10-15	Reserved

FIG. 23

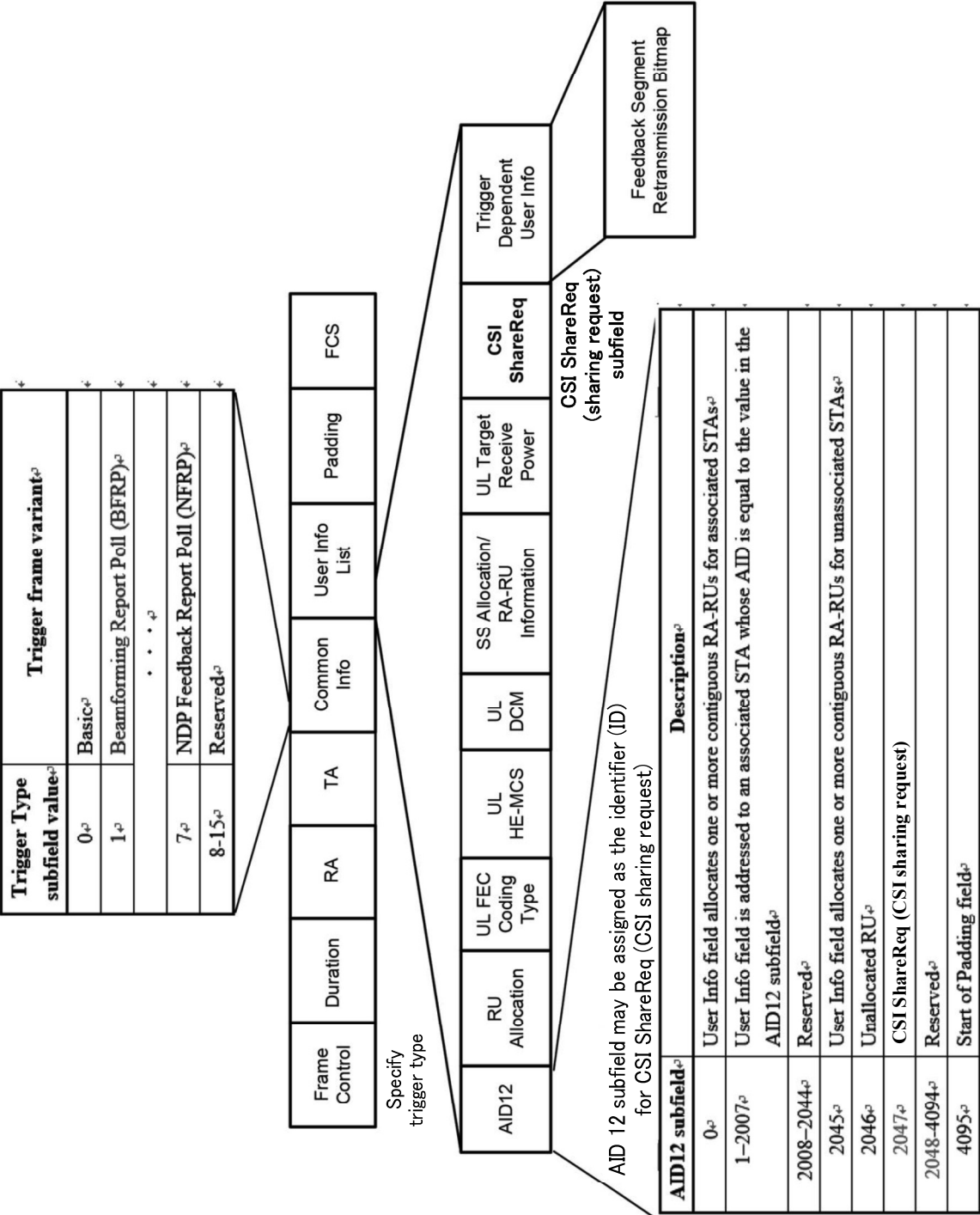


FIG. 24

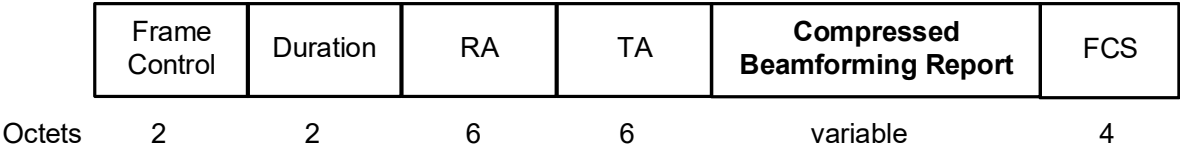


FIG. 25

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000 0001	CSI ShareReq (CSI sharing request)
01	Control	0001	CSI Share (CSI sharing)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	Reserved

FIG. 26

Table 9-526b—HE Compressed Beamforming/CQI frame Action field format^a

Order ^a	Information ^a
1 ^a	Category ^a
2 ^a	HE Action ^a
3 ^a	HE MIMO Control (see 9.4.1.64 (HE MIMO Control field)) ^a
4 ^a	HE Compressed Beamforming Report (see 9.4.1.65 (HE Compressed Beamforming Report field)) ^a
5 ^a	HE MU Exclusive Beamforming Report (see 9.4.1.66 (HE MU Exclusive Beamforming Report field)) ^a
6 ^a	HE CQI Report (see 9.4.1.67 (HE CQI Report field)) ^a

Table 9-51—Category values^a

Code ^a	Meaning ^a	See subclause ^a	Robust ^a	Group ^a addressed ^a privacy ^a
30 ^a	HE ^a	9.6.31 (HE Action frame details) ^a	No ^a	No ^a
31 ^a	Protected HE ^a	9.6.32 (Protected HE Action frame details) ^a	Yes ^a	No ^a

Table 9-526a—HE Action field values^a

Value ^a	Meaning ^a
0 ^a	HE Compressed Beamforming/CQI ^a
1 ^a	Quiet Time Period ^a
2 ^a	OPS ^a
3 ^a	CSI Share (CSI sharing)
4-255 ^a	Reserved ^a

Nc Index	Nr Index	BW	Grouping	Codebook Information	Feedback Type	Remaining Feedback Segments	First Feedback Segment	RU Start Index	RU End Index	Sounding Dialog Token Number	Disallowed Subchannel Bitmap Present	Reserved CSI Share	Disallowed Subchannel Bitmap	Reserved
Indicates the feedback type: Set to 0 for SU Set to 1 for MU Set to 2 for CQI 3 is reserved Set to 3 for CSI Share (CSI sharing) CSI Share (CSI sharing) subfield Set to 0 for not CSI Share Set to 1 for CSI Share (CSI sharing)														

Figure 9-144a—HE MIMO Control field format

FIG. 27

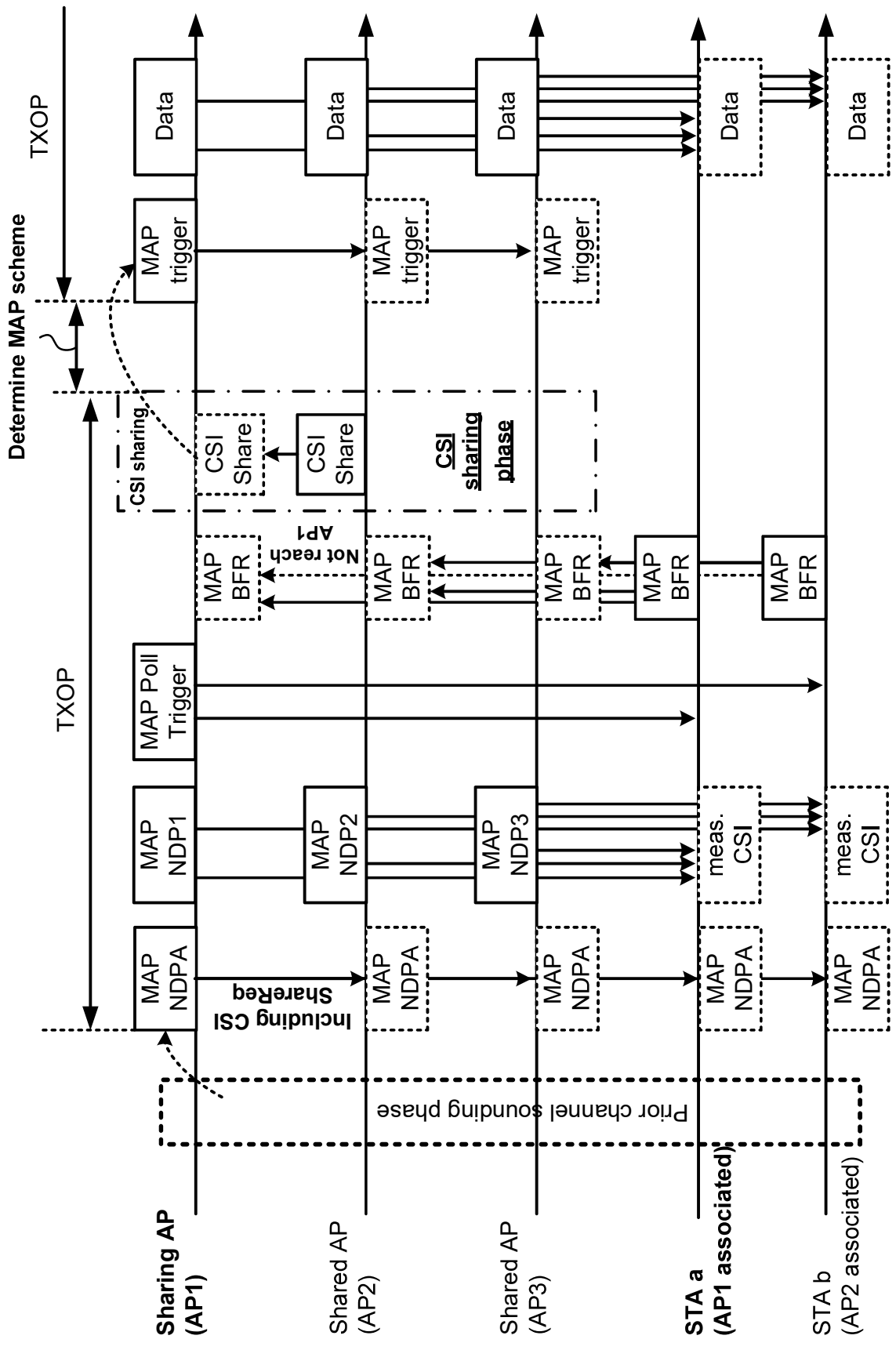


FIG. 28

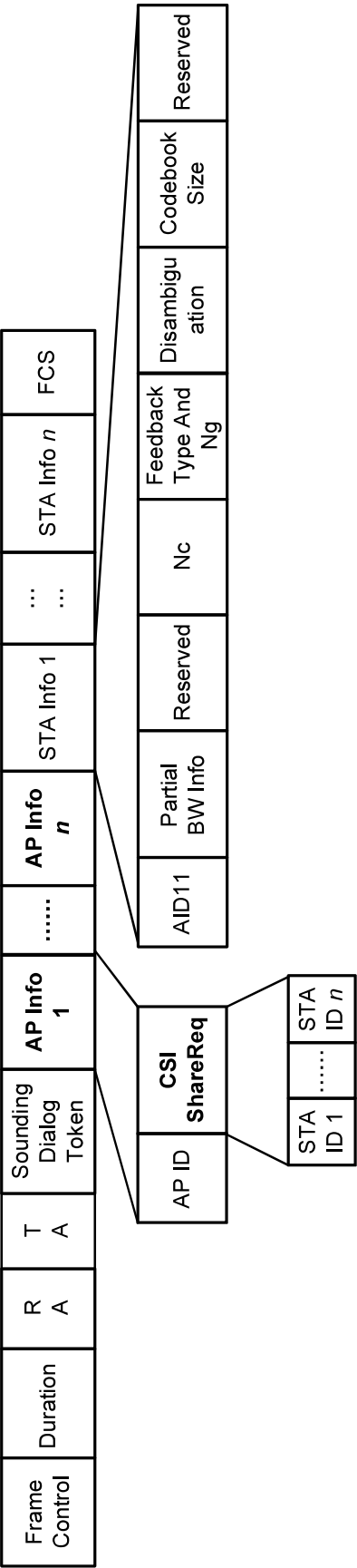


FIG. 29

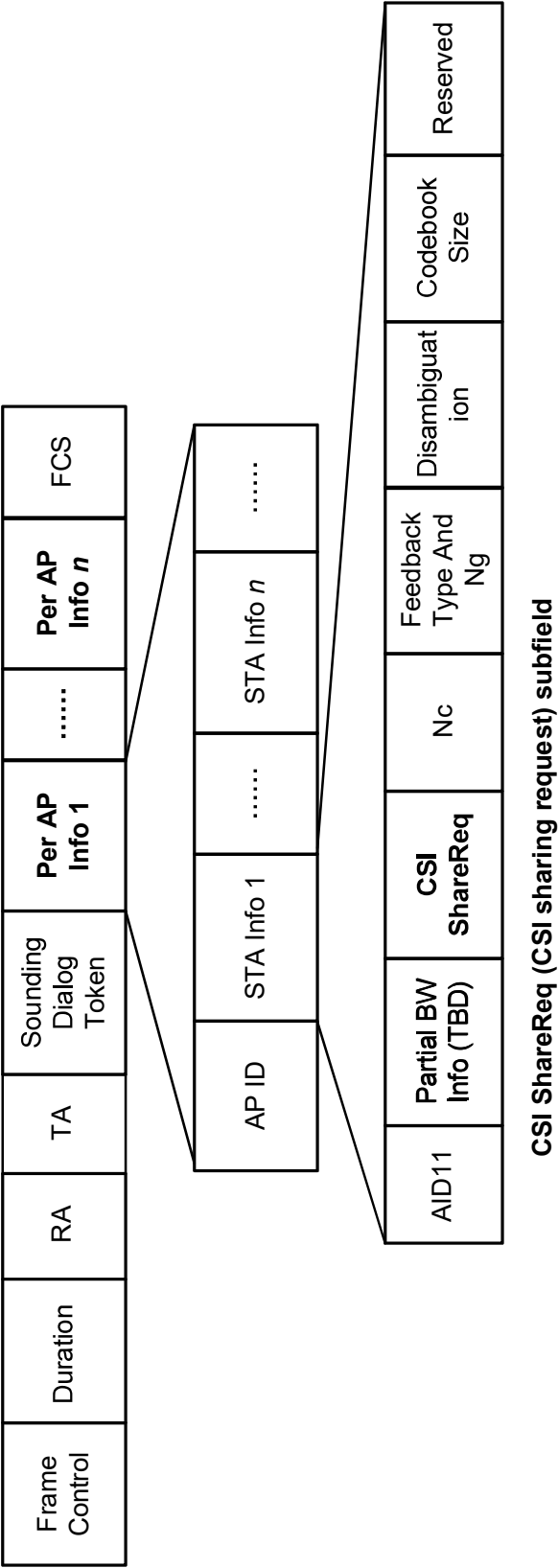


FIG. 30

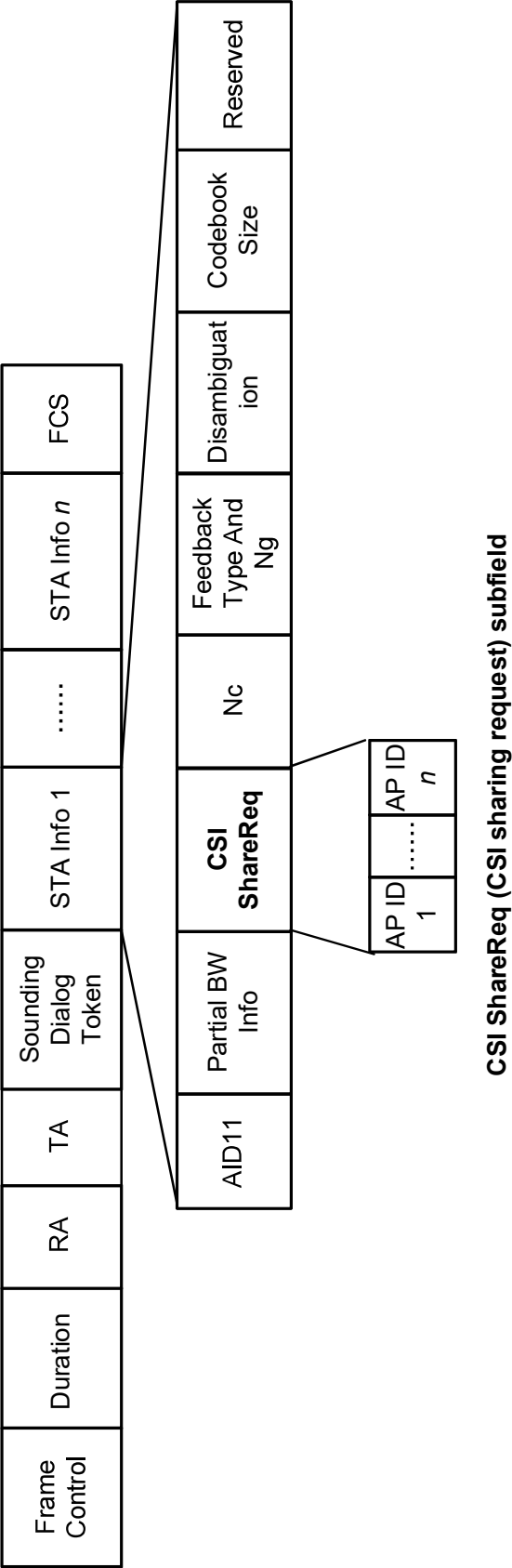


FIG. 31

	Frame Control	Duration	RA	TA	Compressed Beamforming Report	FCS
Octets	2	2	6	6	variable	4

FIG. 32

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000 0001	Reserved
01	Control	0001	CSI Share (CSI sharing)
01	Control	0010	Trigger
01	Control	0011	TACK
01	Control	0100	Beamforming Report Poll
01	Control	0101	VHT/HE NDP Announcement
01	Control	0110	Control Frame Extension
01	Control	0111	Control Wrapper
01	Control	1000	Block Ack Request (BlockAckReq)
01	Control	1001	Block Ack (BlockAck)
01	Control	1010	PS-Poll
01	Control	1011	RTS
01	Control	1100	CTS
01	Control	1101	Ack
01	Control	1110	CF-End
01	Control	1111	Reserved

FIG. 33

Table 9-526b—HE Compressed Beamforming/CQI frame Action field format^a

Order ^a	Information ^a
1 ^a	Category ^a
2 ^a	HE Action ^a
3 ^a	HE MIMO Control (see 9.4.1.64 (HE MIMO Control field)) ^a
4 ^a	HE Compressed Beamforming Report (see 9.4.1.65 (HE Compressed Beamforming Report field)) ^a
5 ^a	HE MU Exclusive Beamforming Report (see 9.4.1.66 (HE MU Exclusive Beamforming Report field)) ^a
6 ^a	HE CQI Report (see 9.4.1.67 (HE CQI Report field)) ^a

Table 9-51—Category values^a

Code ^a	Meaning ^a	See subclause ^a	Robust ^a	Group ^a addressed ^a privacy ^a
30 ^a	HE ^a	9.6.31 (HE Action frame details) ^a	No ^a	No ^a
31 ^a	Protected HE ^a	9.6.32 (Protected HE Action frame details) ^a	Yes ^a	No ^a

Table 9-526a—HE Action field values^a

Value ^a	Meaning ^a
0 ^a	HE Compressed Beamforming/CQI ^a
1 ^a	Quiet Time Period ^a
2 ^a	OPS ^a
3 ^a	CSI Share (CSI sharing)
4-255 ^a	Reserved ^a

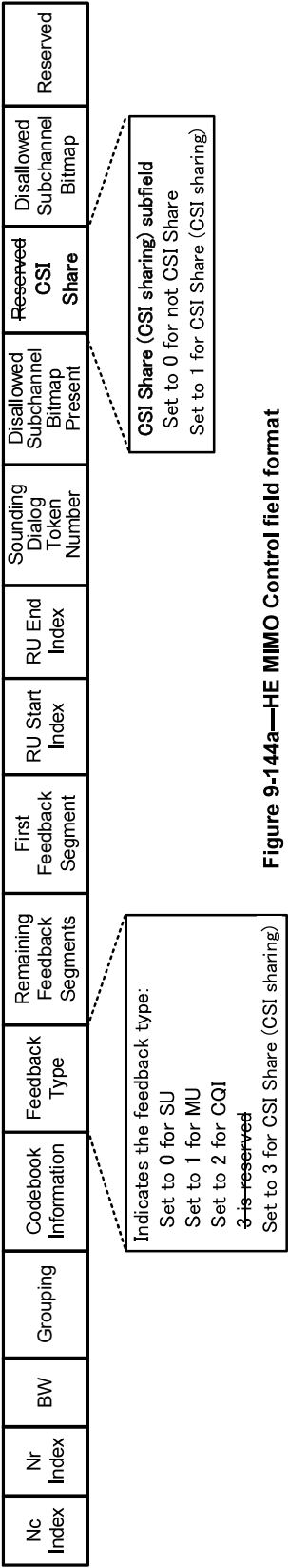


Figure 9-144a—HE MIMO Control field format

FIG. 34

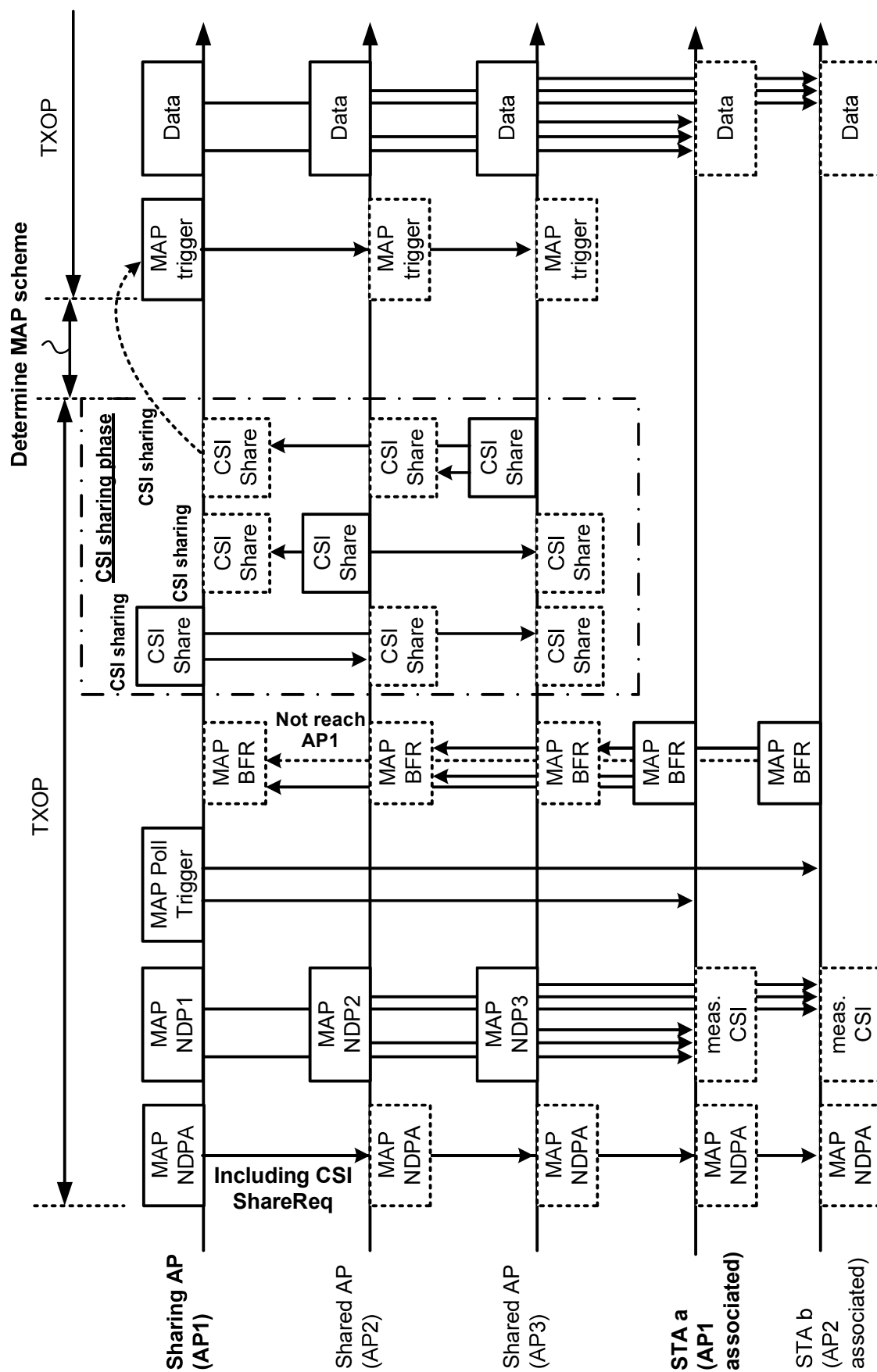


FIG. 35

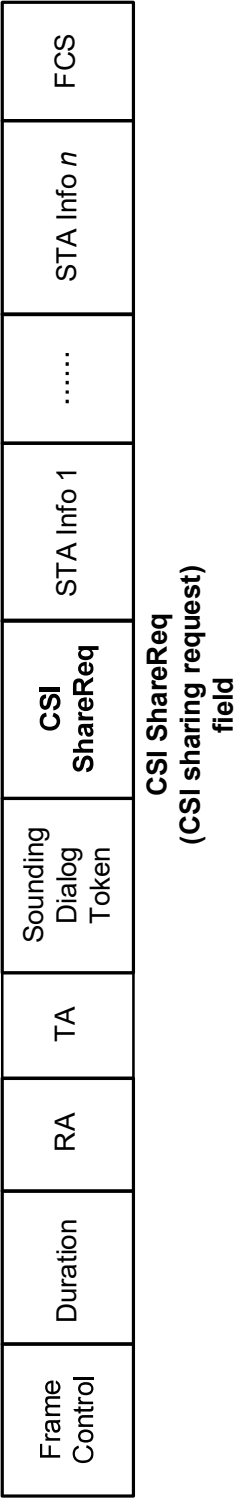


FIG. 36

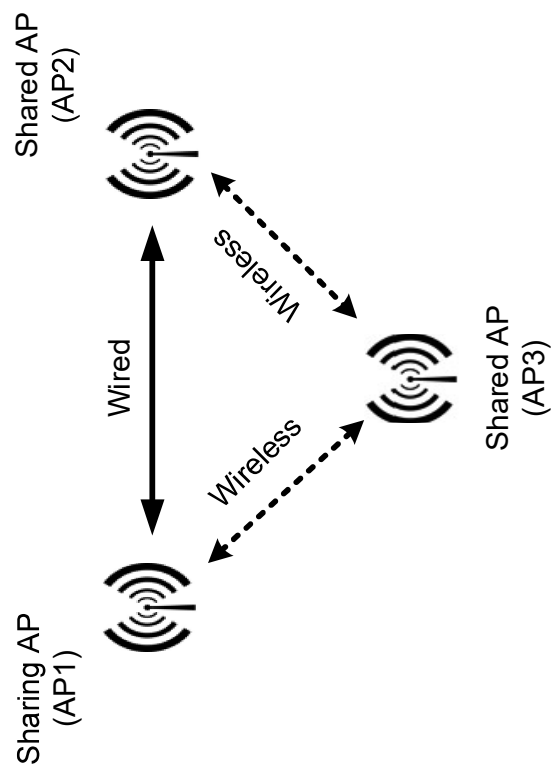


FIG. 37

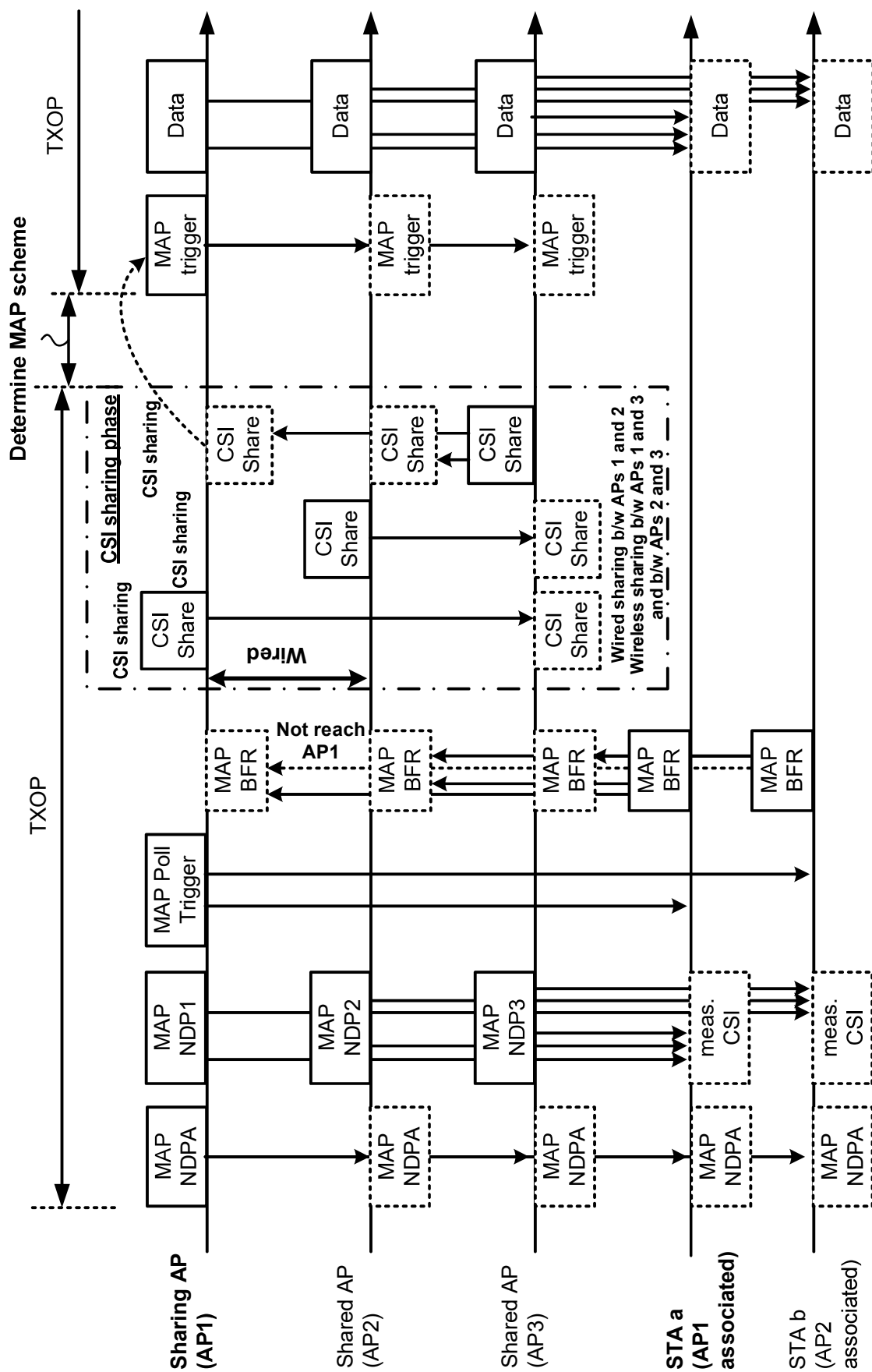


FIG. 38

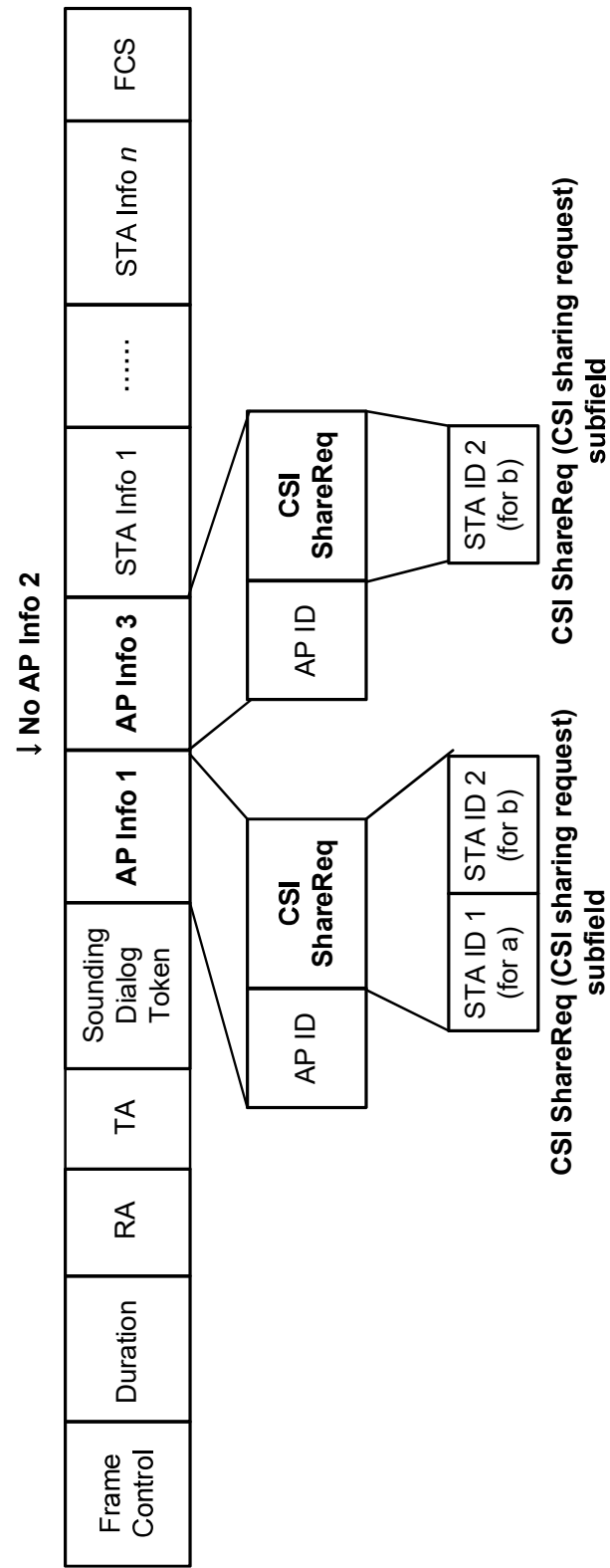


FIG. 39