

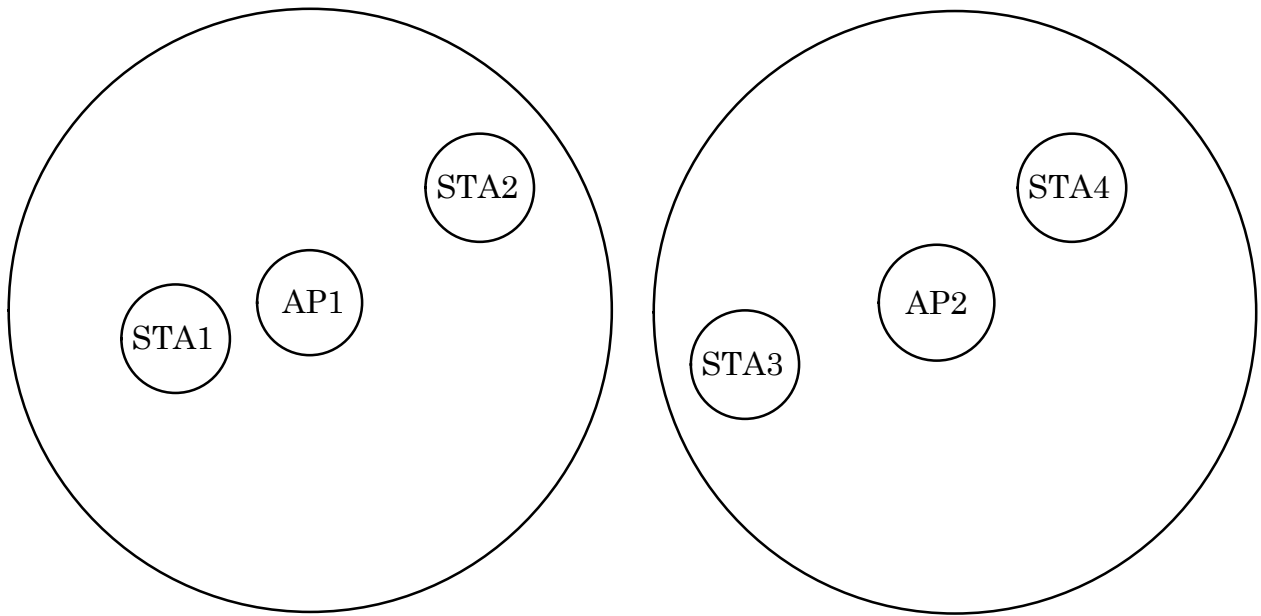


FIG. 1A

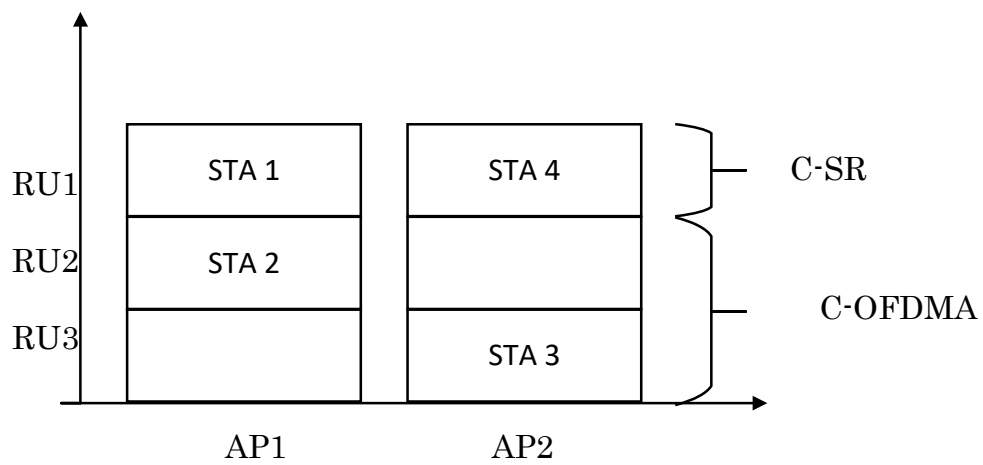


FIG. 1B

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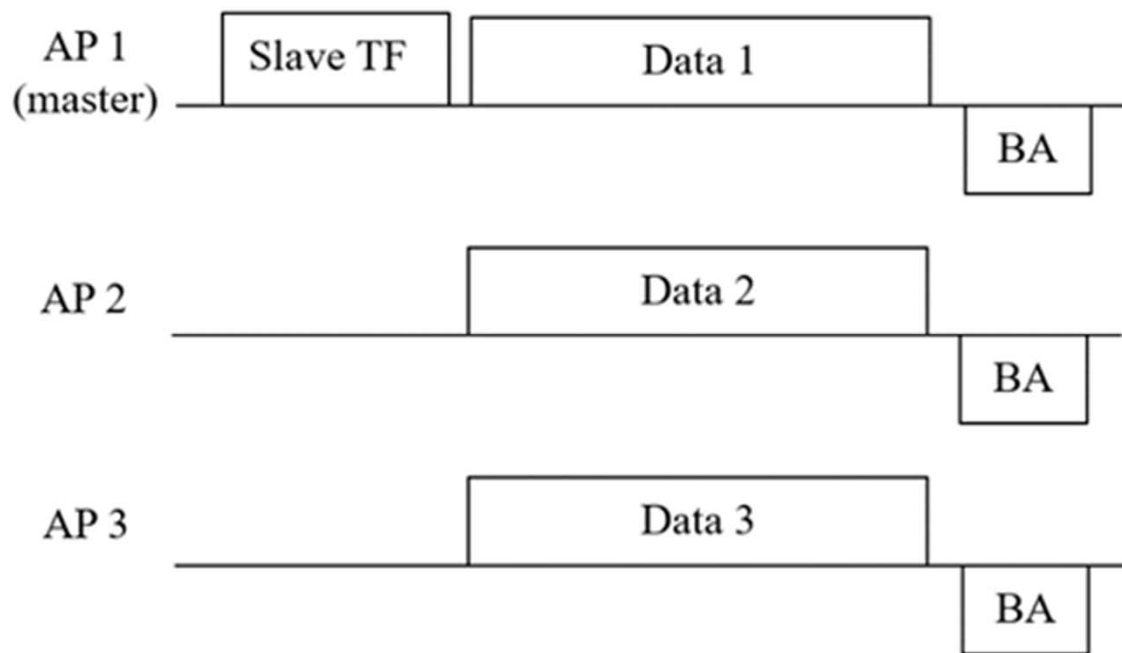


FIG. 2

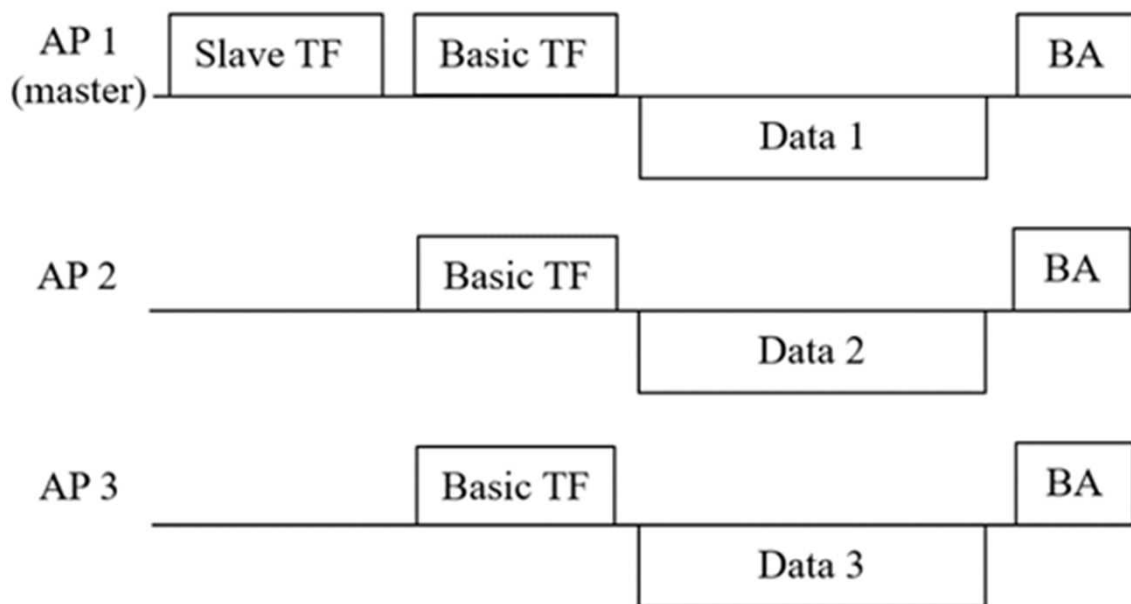


FIG. 3

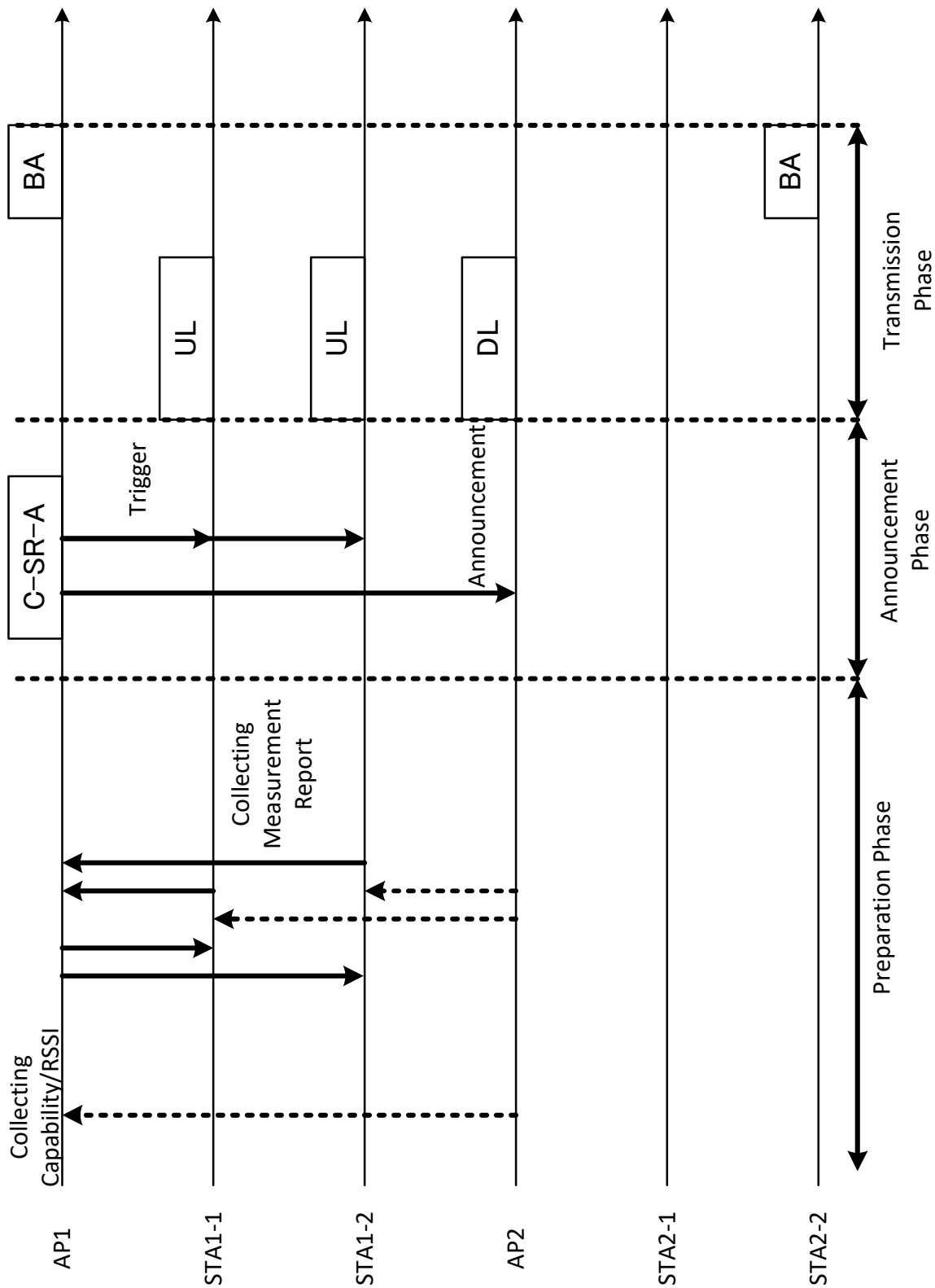


FIG. 4

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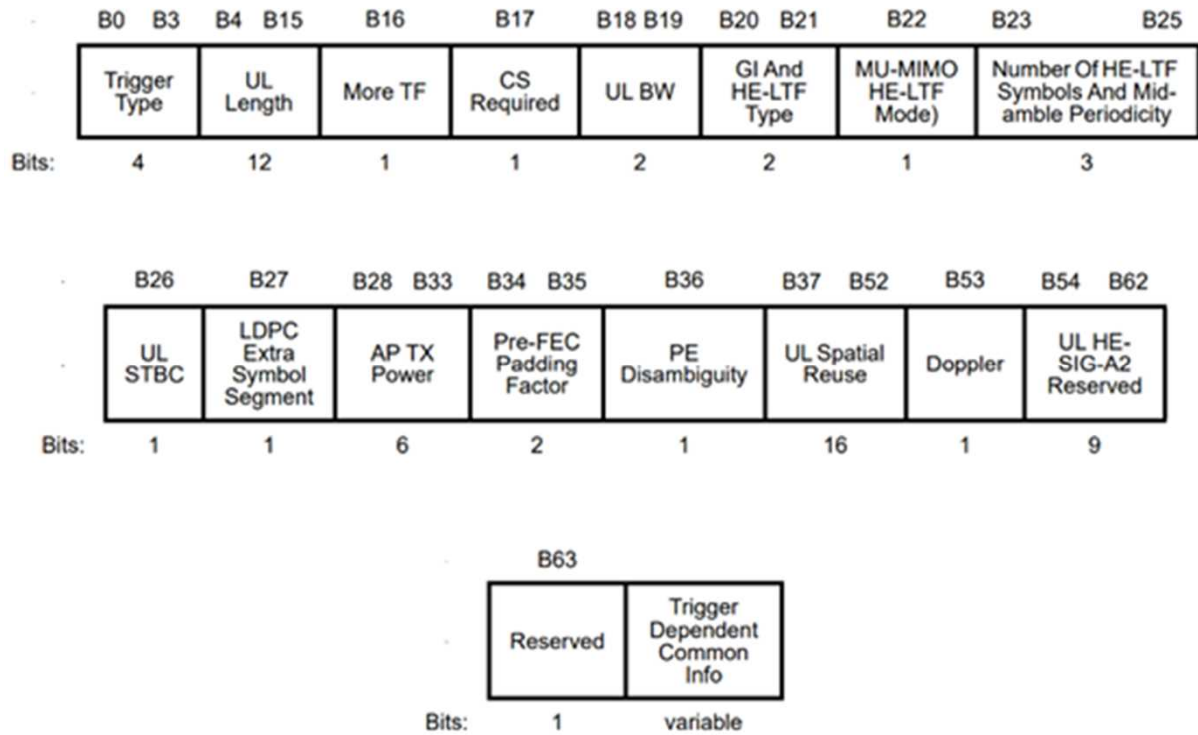


FIG. 5

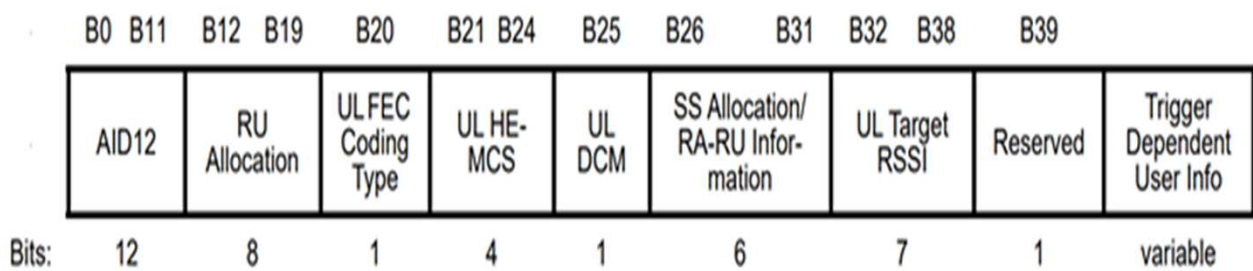


FIG. 6

AID12 subfield	Description
0	User Info field allocates one or more contiguous RA-RUs for associated STAs
1–2007	User Info field is addressed to an associated STA whose AID is equal to the value in the AID12 subfield
2008–2044	Reserved
2045	User Info field allocates one or more contiguous RA-RUs for unassociated STAs
2046	Unallocated RU
2047–4094	Reserved
4095	Start of Padding field
NOTE 1—The remaining subfields in the User Info field are reserved when the AID12 subfield is 2046.	
NOTE 2—The remaining subfields of the User Info field are not present when the AID12 subfield is 4095.	

FIG. 7

Order	Information	Notes
1	Timestamp	
2	Beacon interval	
3	Capability Information	
4	Service Set Identifier (SSID)	If dot11MeshActivated is true, the SSID element is the wildcard value as described in 9.4.2.2.
5	Supported Rates and BSS Membership Selectors	
6	DSSS Parameter Set	The element is optionally present. The DSSS Parameter Set element is present within Beacon frames generated by STAs using Clause 15, Clause 16, and Clause 18 PHYs. The element is present within Beacon frames generated by STAs using a Clause 19 PHY in the 2.4 GHz band.
7	CF Parameter Set	The CF Parameter Set element is present only within Beacon frames generated by APs supporting a PCF. This element is not present if dot11HighThroughputOption-Implemented is true and the Dual CTS Protection field of the HT Operation element is 1.
8	IBSS Parameter Set	The IBSS Parameter Set element is present only within Beacon frames generated by IBSS STAs.
9	Traffic indication map (TIM)	The TIM element is present only within Beacon frames generated by APs or mesh STAs.

FIG. 8

Order	Information	Notes
1	Capability Information	
2	Listen Interval	
3	SSID	
4	Supported Rates and BSS Membership Selectors	This field is not present if dot11DMGOptionImplemented is true.
5	Extended Supported Rates and BSS Membership Selectors	The Extended Supported Rates and BSS Membership Selectors element is present if there are more than eight supported rates, and it is optional otherwise. This element is not present if dot11DMGOptionImplemented is true.
6	Power Capability	The Power Capability element is present if dot11SpectrumManagementRequired is true or dot11RadioMeasurementActivated is true.
7	Supported Channels	The Supported Channels element is present if dot11SpectrumManagementRequired is true and dot11ExtendedChannelSwitchActivated is false.
8	RSN	The RSNE is present if dot11RSNAActivated is true.
9	QoS Capability	The QoS Capability element is present if dot11QosOptionImplemented is true.
10	RM Enabled Capabilities	RM Enabled Capabilities element is present if dot11RadioMeasurementActivated is true.
11	Mobility Domain	The Mobility Domain element (MDE) is present in an Association Request frame if dot11FastBSSTransitionActivated is true and if the frame is being sent to an AP that advertised its FT capability in the MDE in its Beacon or Probe Response frame (i.e., AP also has dot11FastBSSTransitionActivated equal to true).
12	Supported Operating Classes	The Supported Operating Classes element is present if dot11ExtendedChannelSwitchActivated is true.
13	HT Capabilities	The HT Capabilities element is present when dot11HighThroughputOptionImplemented is true.

FIG. 9

Order	Information	Notes
1	Capability Information	
2	Status code	
3	AID	
4	Supported Rates and BSS Membership Selectors	This field is not present if dot11DMGOptionImplemented is true.
5	Extended Supported Rates and BSS Membership Selectors	The Extended Supported Rates and BSS Membership Selectors element is present if there are more than eight supported rates and is optionally present otherwise. This element is not present if dot11DMGOptionImplemented is true.
6	EDCA Parameter Set	The EDCA Parameter Set Element is present if dot11QosOptionImplemented is true; otherwise not present.

FIG. 10

B0	B1	B2	B3	B4	B5	B6	B7
ESS	IBSS	CF Pollable	CF-Poll Request	Privacy	Short Preamble	Reserved	Reserved

B8	B9	B10	B11	B12	B13	B14	B15
Spectrum Management	QoS	Short Slot Time	APSD	Radio Measurement	Reserved	Delayed Block Ack	Immediate Block Ack

FIG. 11

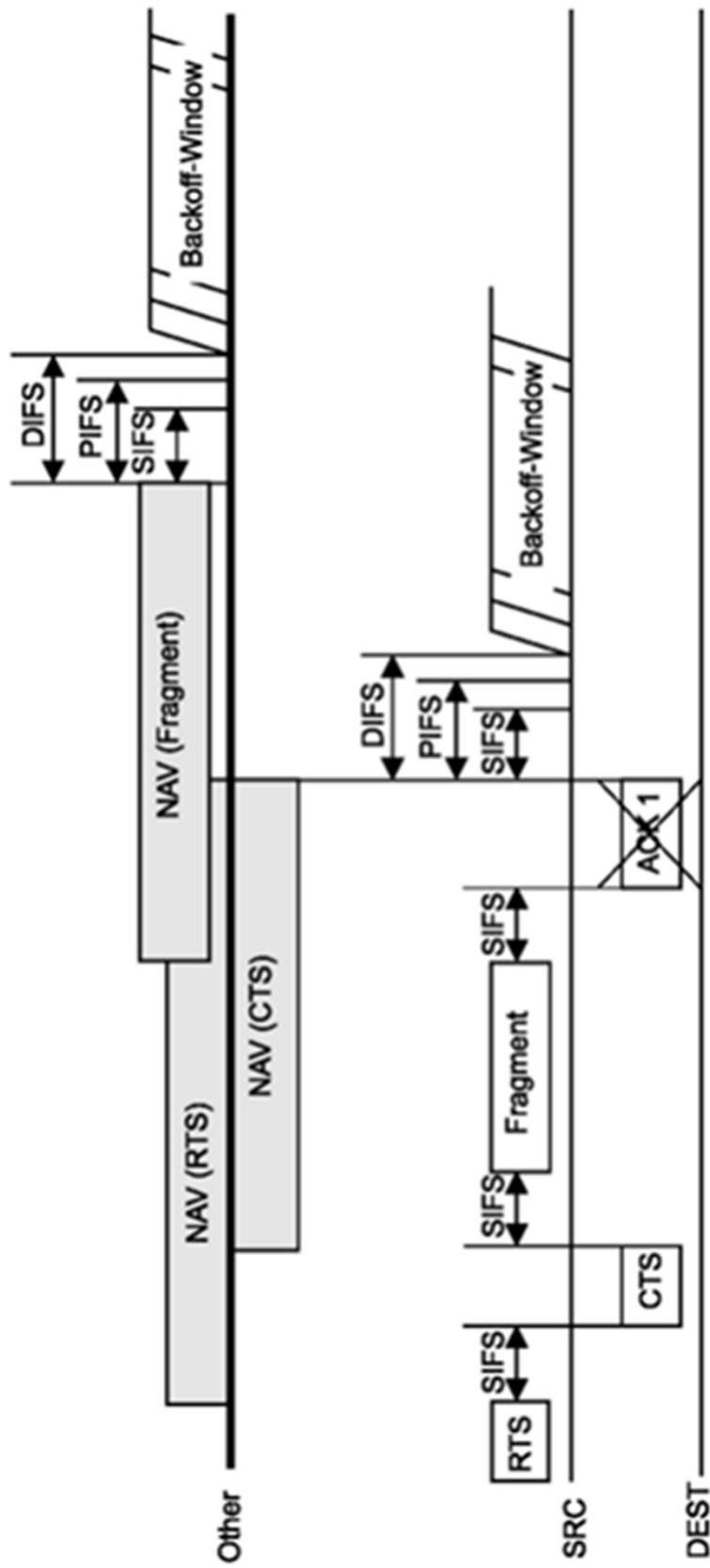


FIG. 12

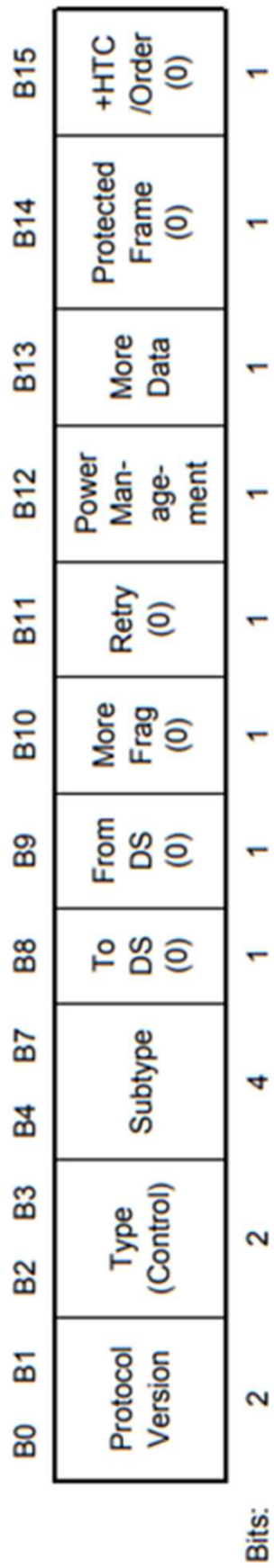


FIG. 13

Type value B3 B2	Type description	Subtype value B7 B6 B5 B4	Subtype description
01	Control	0000-001 <u>0</u> 000 <u>1</u>	Reserved
<u>01</u>	<u>Control</u>	<u>0010</u>	<u>Trigger</u>
01	Control	0101	VHT/ <u>HE</u> NDP Announcement

FIG. 14

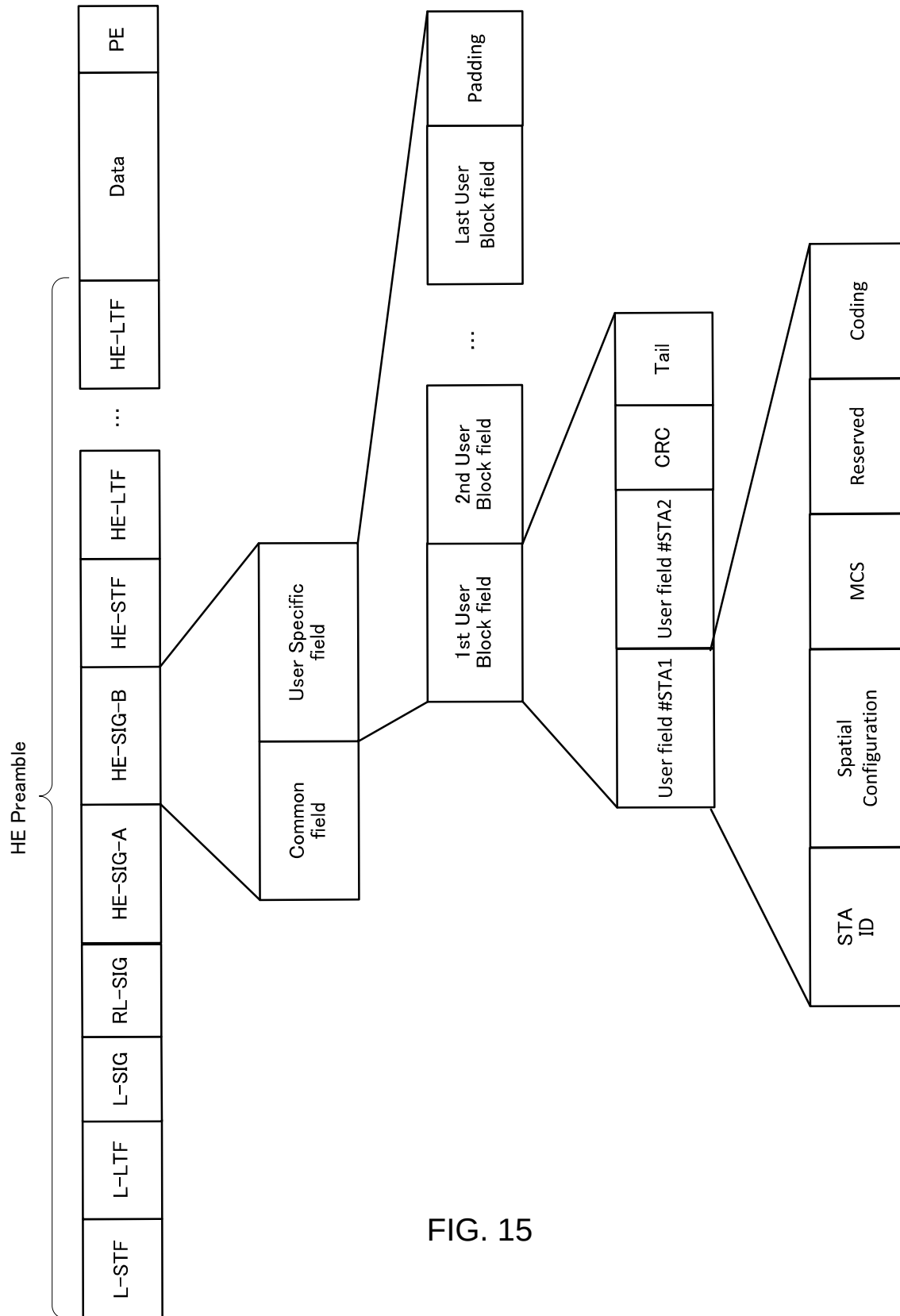


FIG. 15

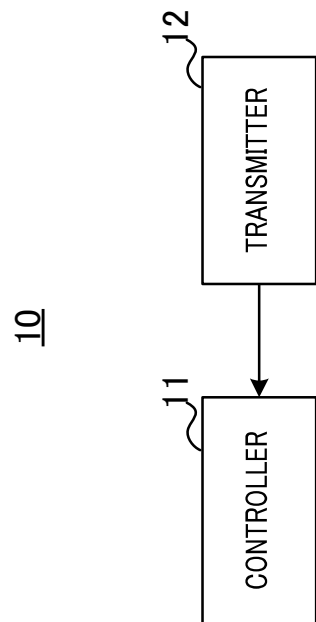


FIG. 16A

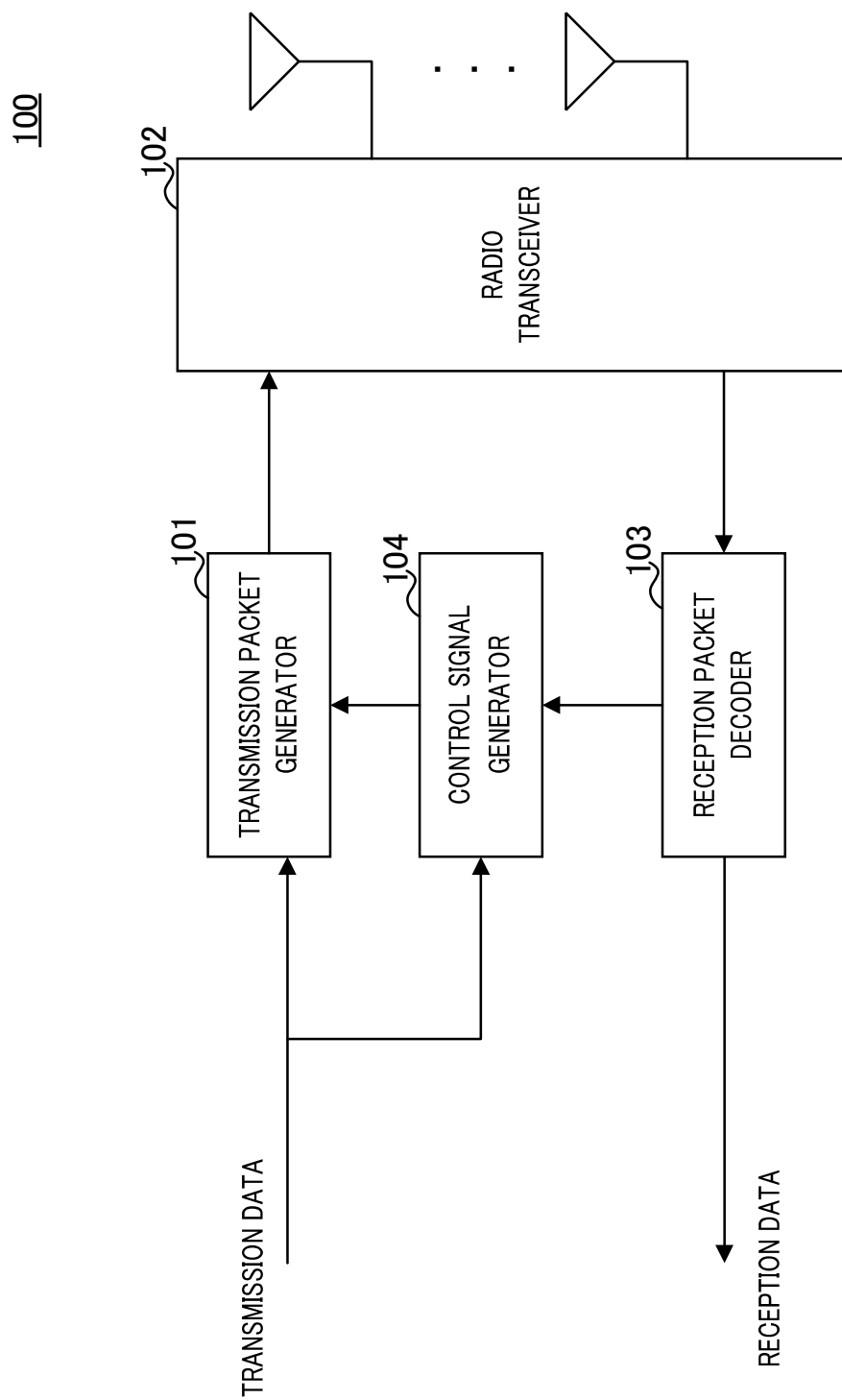


FIG. 16B

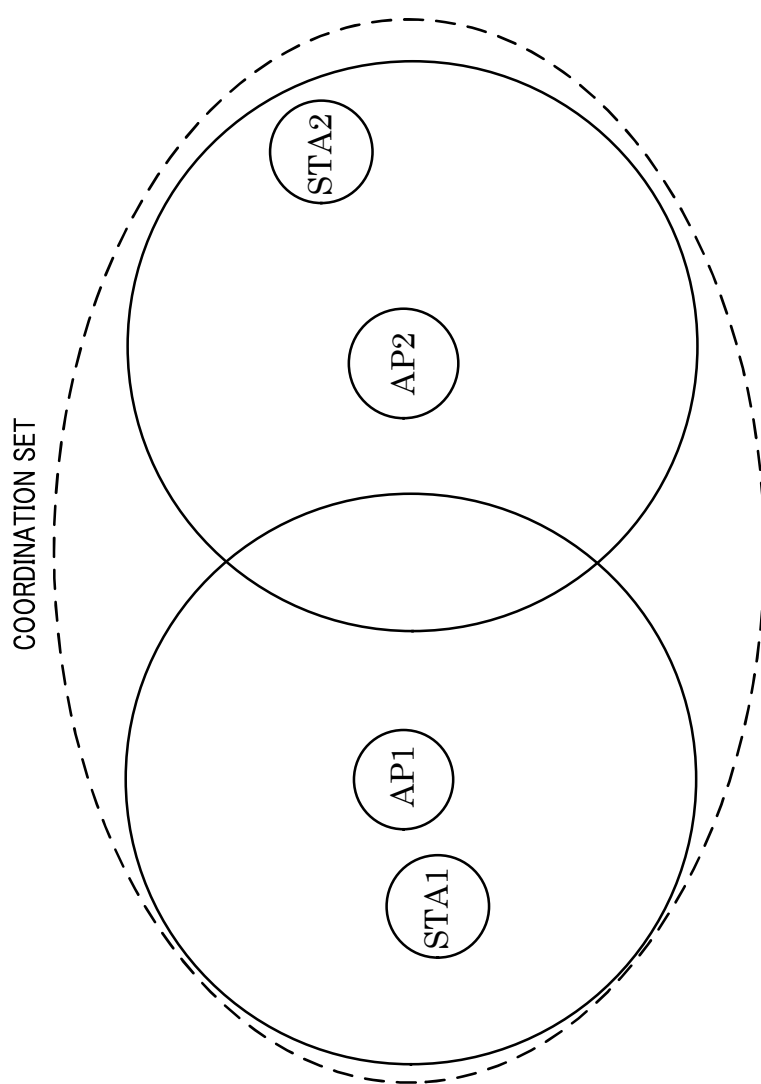


FIG. 17

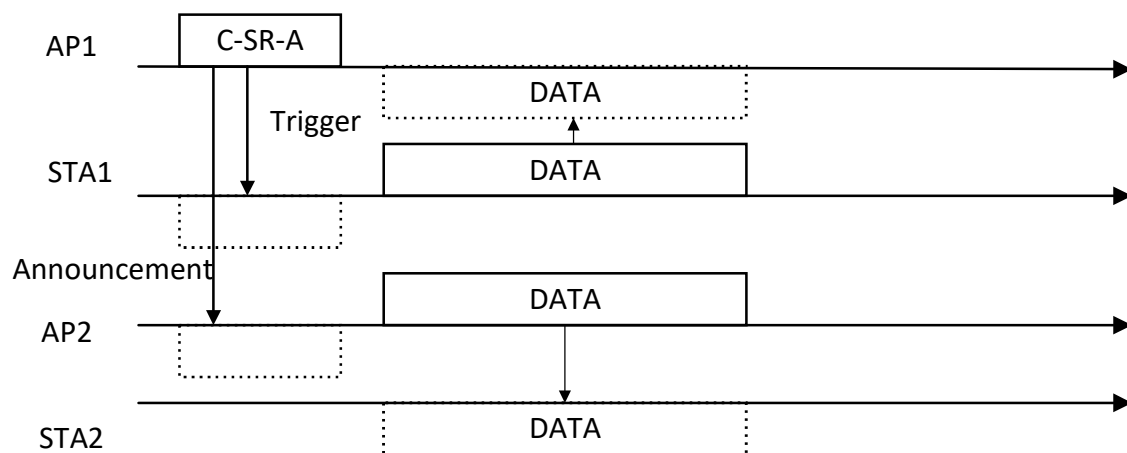


FIG. 18

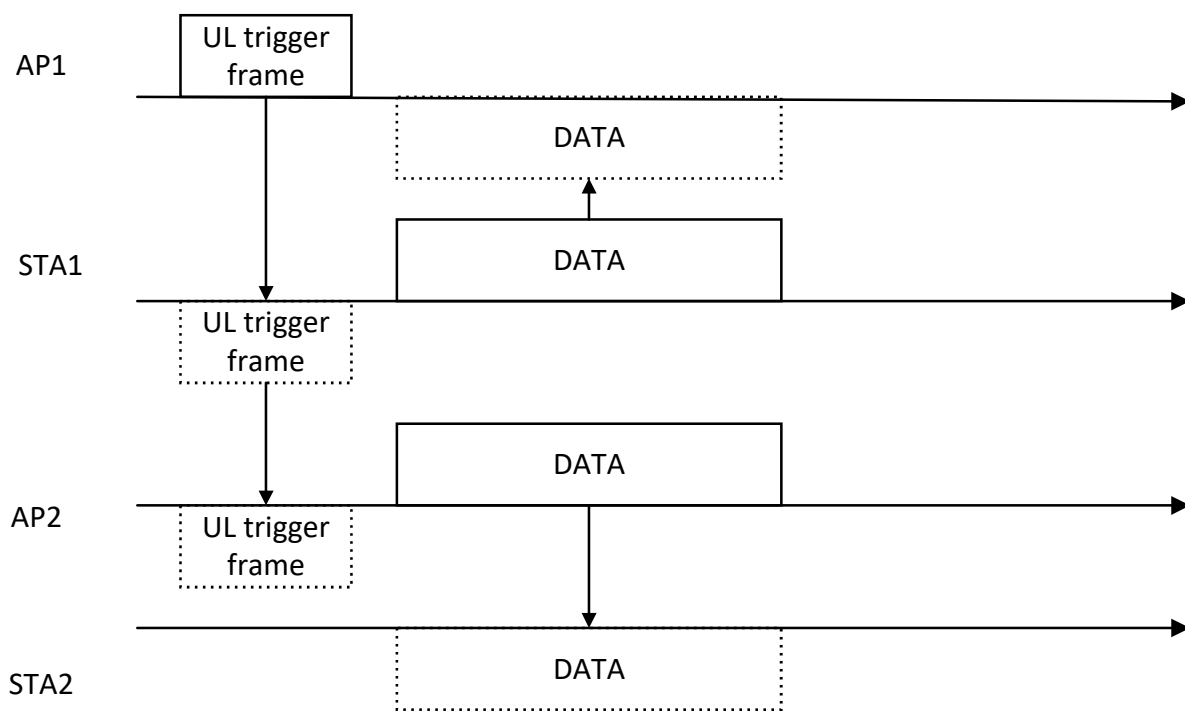


FIG. 19

AID12 subfield	Description
0	User Info field allocates one or more contiguous RA-RUs for associated STAs
1–2007	User Info field is addressed to an associated STA whose AID is equal to the value in the AID12 subfield
2008	SPECIFYING AP
2009–2044	Reserved
2045	User Info field allocates one or more contiguous RA-RUs for unassociated STAs
2046	Unallocated RU
2047–4094	Reserved
4095	Start of Padding field
NOTE 1—The remaining subfields in the User Info field are reserved when the AID12 subfield is 2046.	
NOTE 2—The remaining subfields of the User Info field are not present when the AID12 subfield is 4095.	

FIG. 20

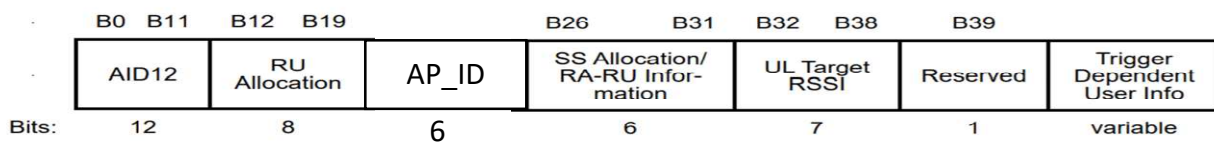


FIG. 21

AP-ID	RU Allocaton	UL Target RSSI
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FIG. 22

Order	Information	Notes
1	Capability Information	VALIDATING AP_ID flag (=1)
2	AP_ID	AP_ID INDICATING INSTALLED AP
3	Power Capability	CONTENT SAME AS CONTENT OF Order=6 IN FIG. 9
4	Supported Channels	CONTENT SAME AS CONTENT OF Order=7 IN FIG. 9

FIG. 23

Order	Information	Notes
1	Capability Information	VALIDATING AP_ID flag (=1)
2	AP_ID	AP_ID INDICATING ADDED AP
3	Power Capability	CONTENT SAME AS CONTENT OF Order=6 IN FIG. 9
4	Supported Channels	CONTENT SAME AS CONTENT OF Order=7 IN FIG. 9

FIG. 24

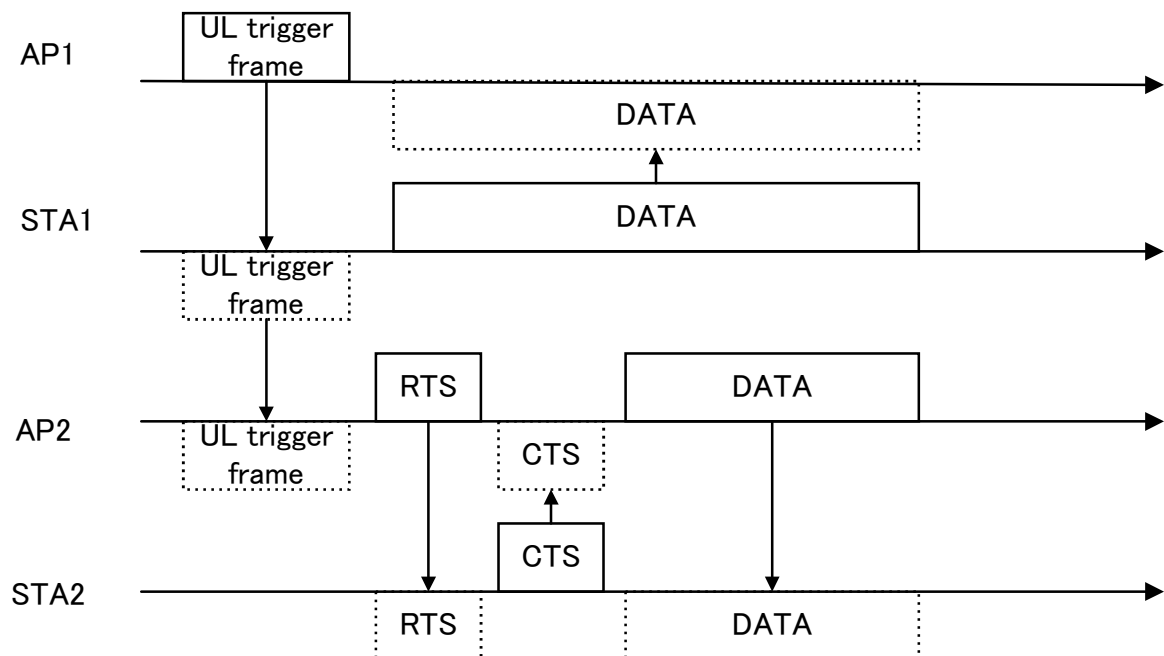


FIG. 25

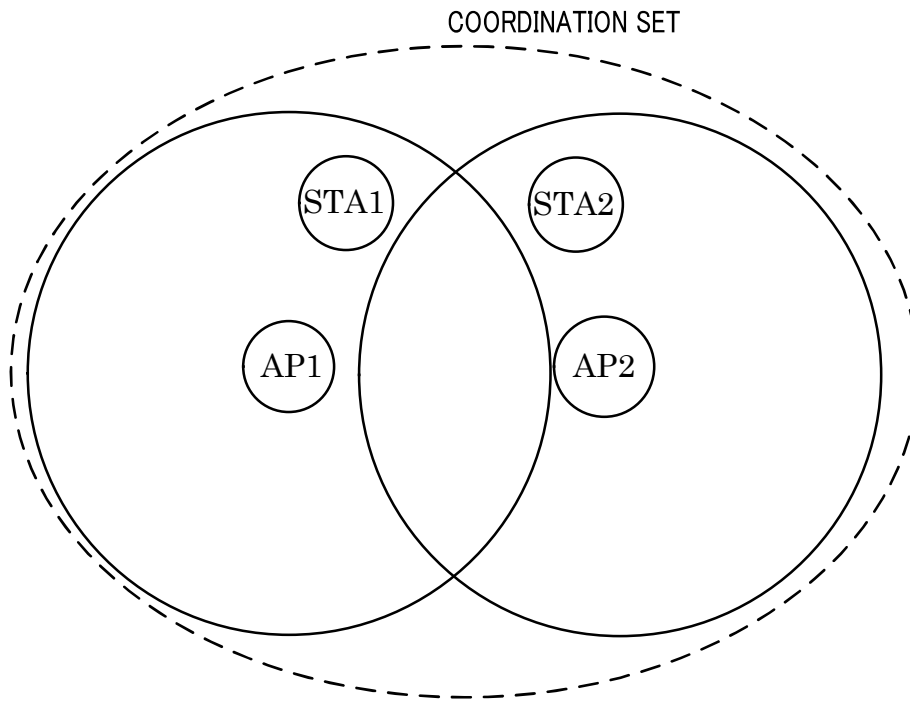


FIG. 26

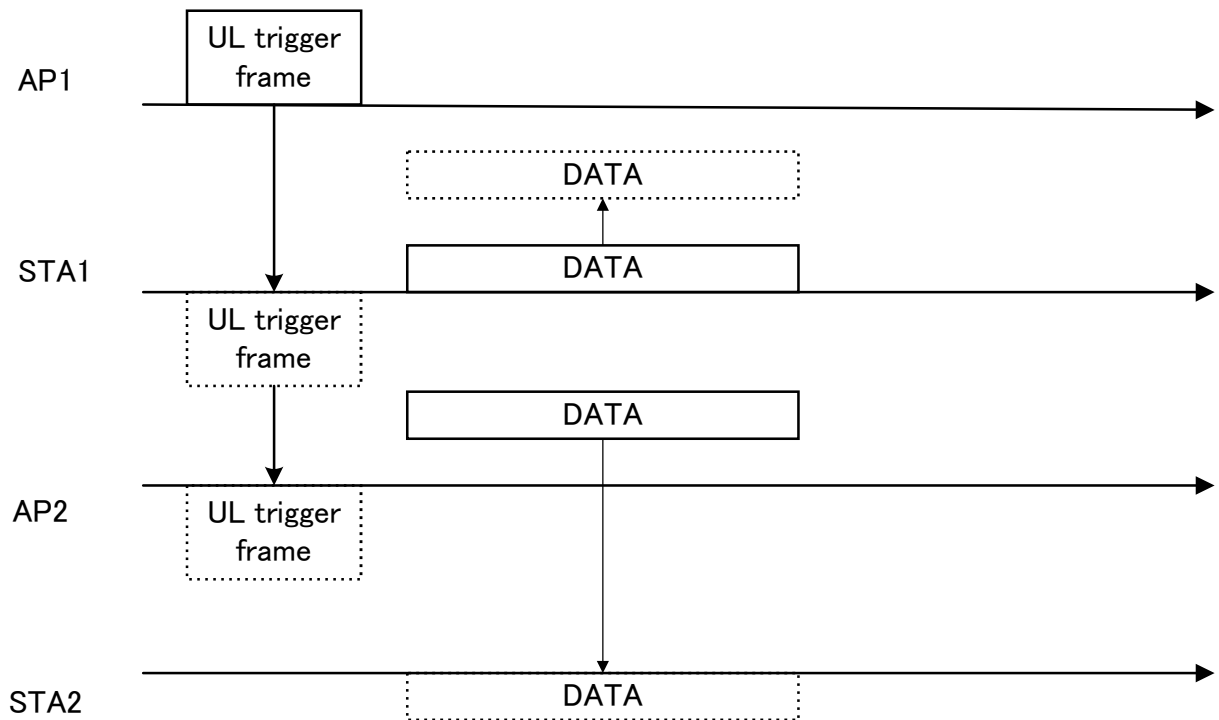


FIG. 27