

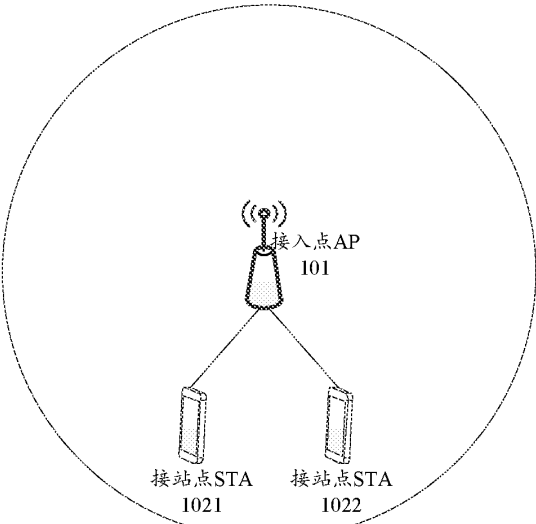


图 1

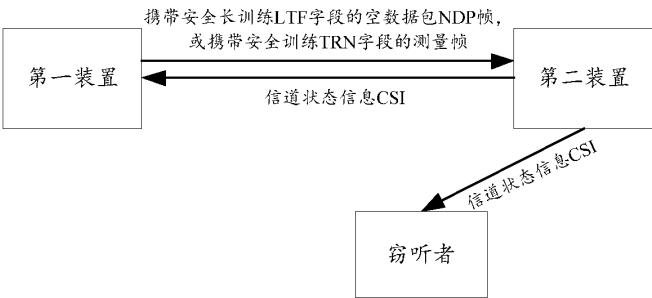


图 2

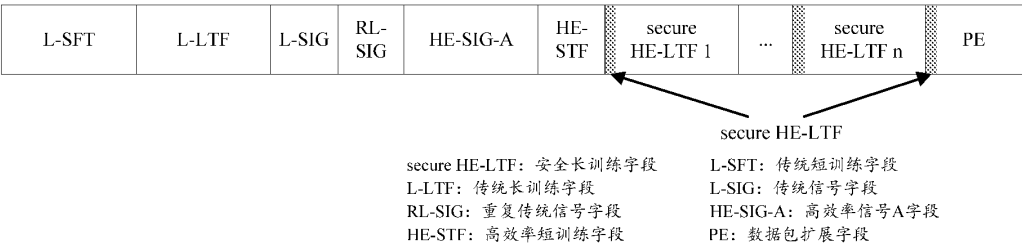
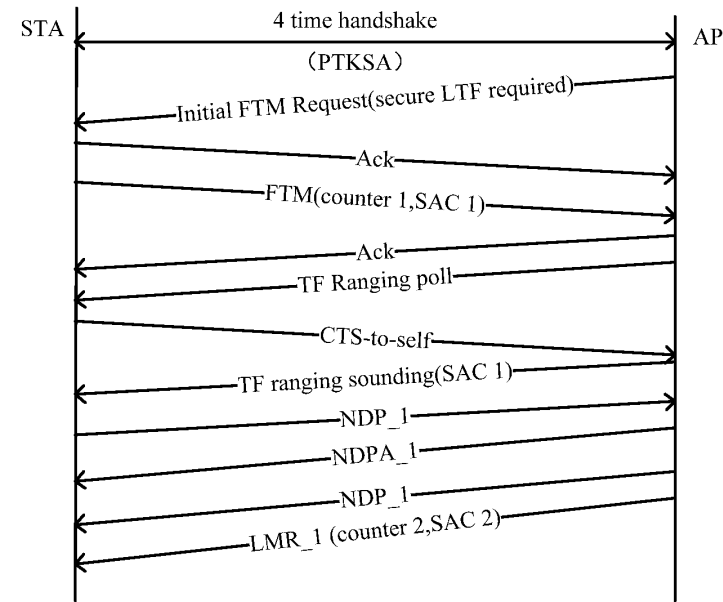


图 3



4 time handshake: 四次握手
PTKSA: 瞬态密钥安全关联
Ack: 确认应答
Initial FTM Request: 初始精细测量帧请求
counter: 计数器
TF ranging sounding: 测距探测帧
SAC: 序列验证码
FTM: 精细测量帧
STA: 站点
TF ranging poll: 测距轮询帧
NDP: 空数据包帧
LMR: 位置测量反馈
AP: 接入点
secure LTF required: 安全长训练字段请求
CTS-to-self: 允许自我发送

图 4 (a)

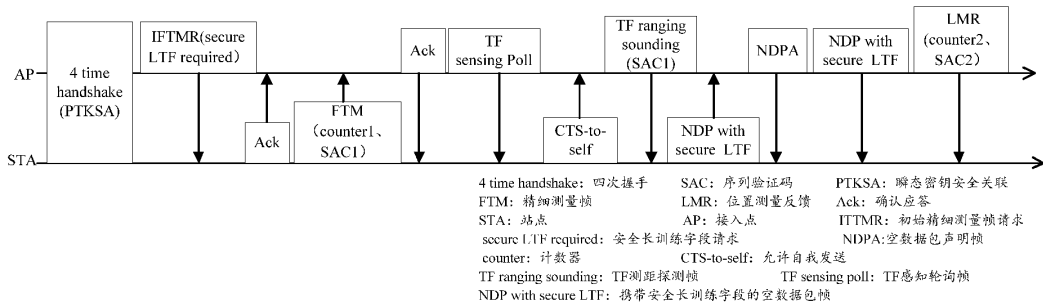


图 4 (b)

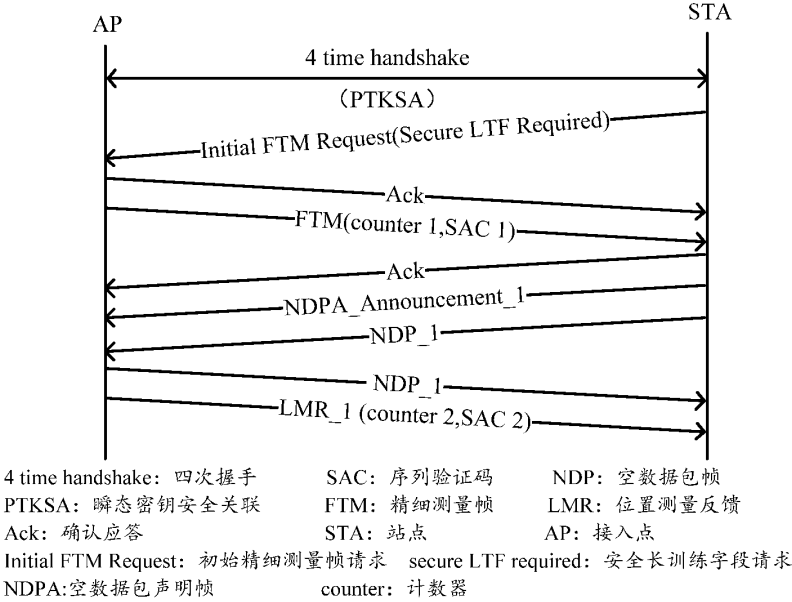


图 5 (a)

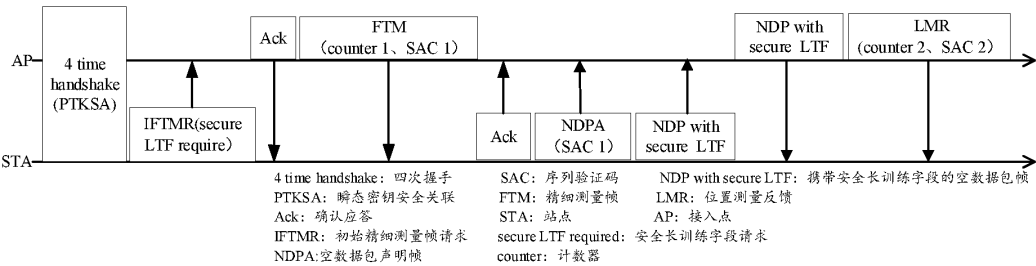


图 5 (b)

信息反馈方法100

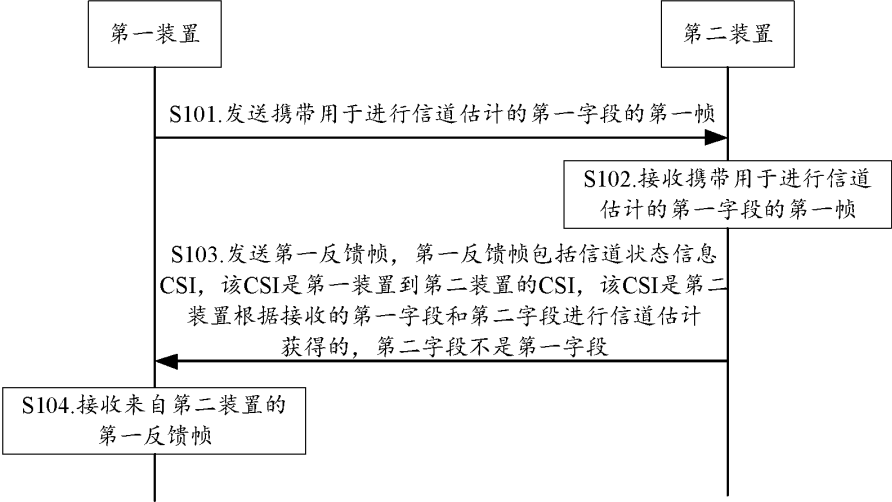


图 6

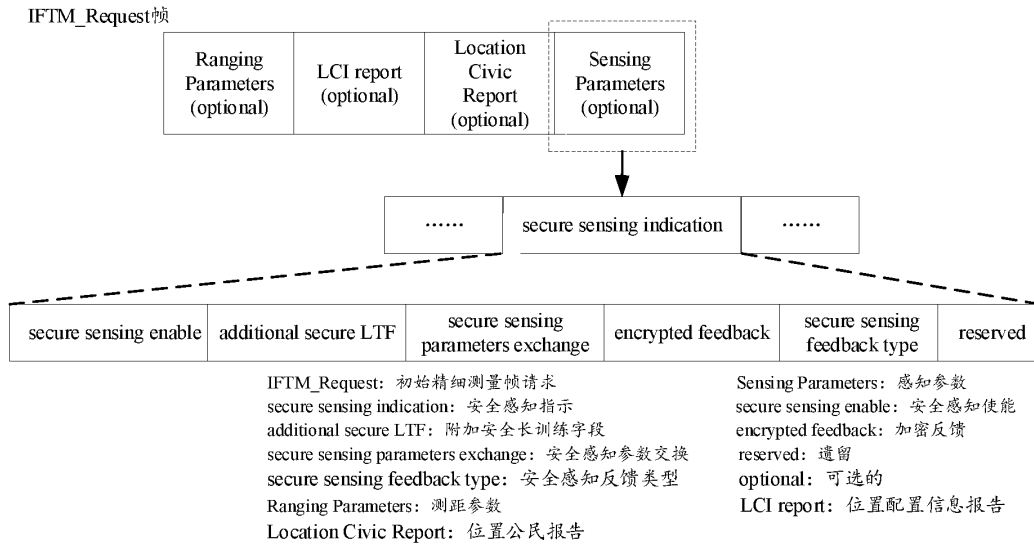


图 7 (a)

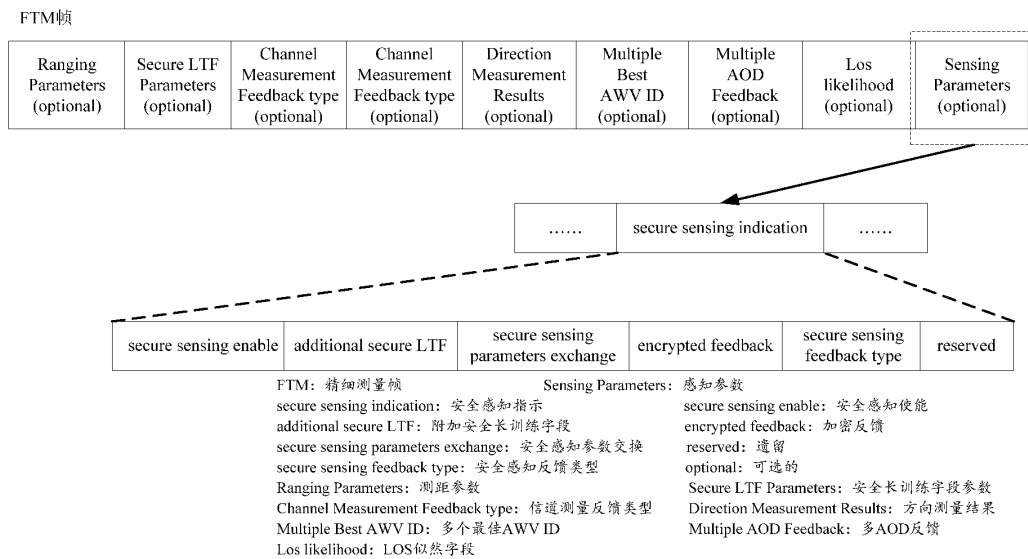


图 7 (b)

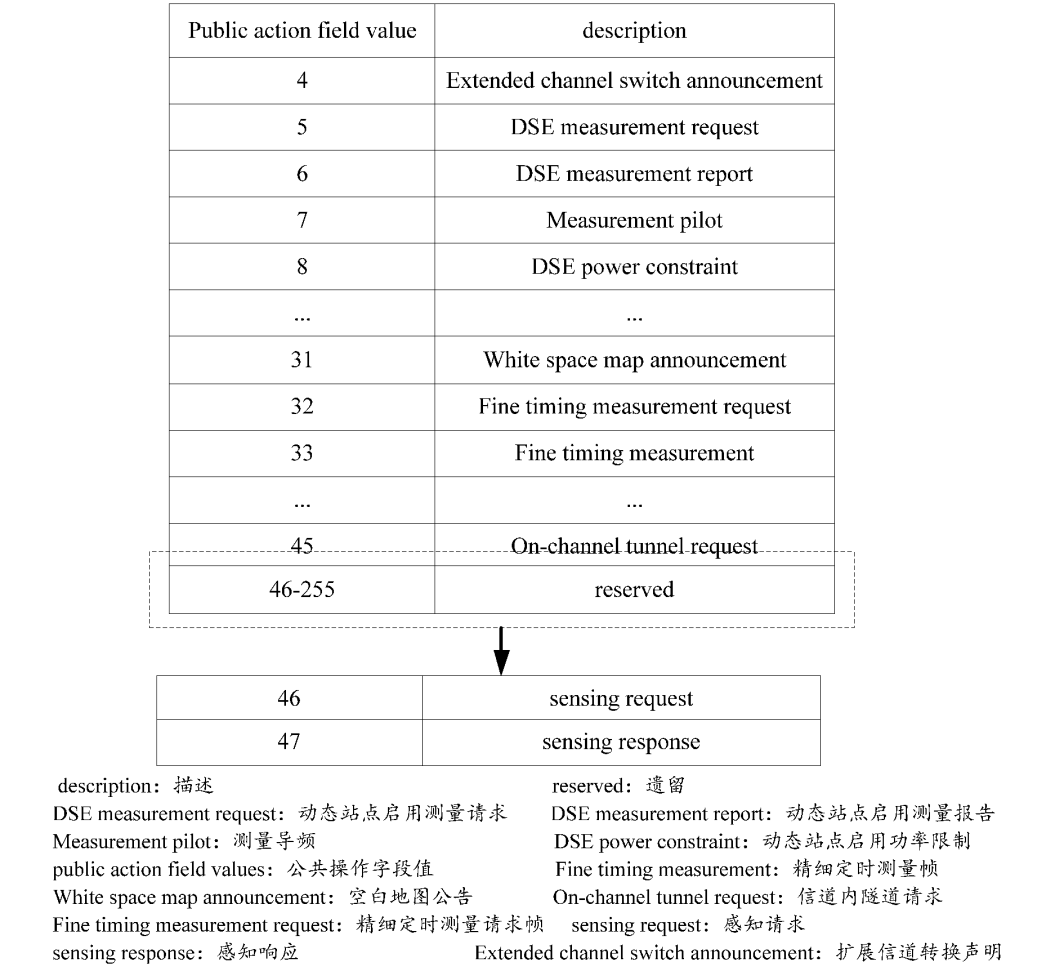


图 8 (a)

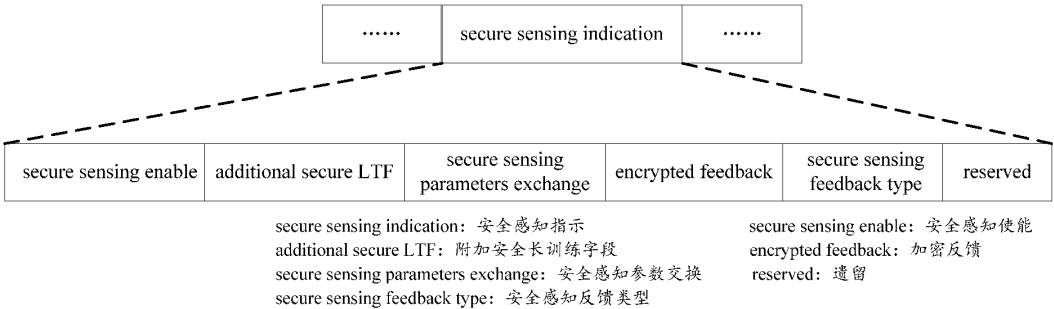


图 8 (b)

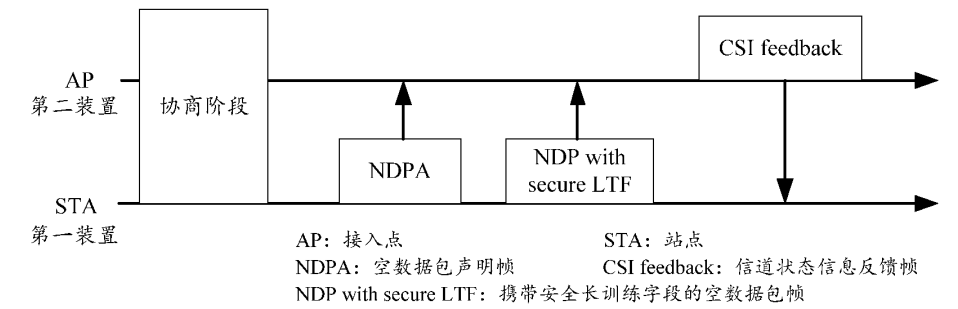


图 9 (a)

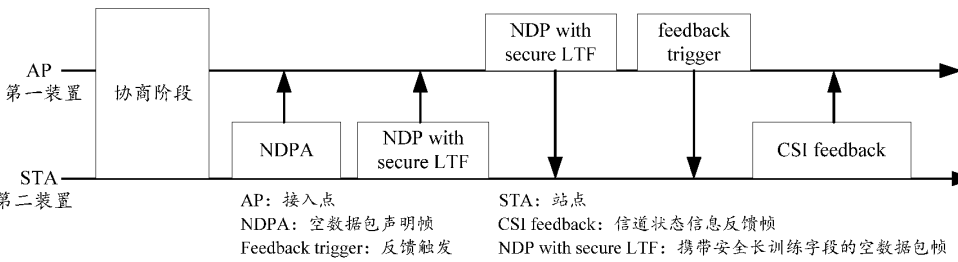


图 9 (b)

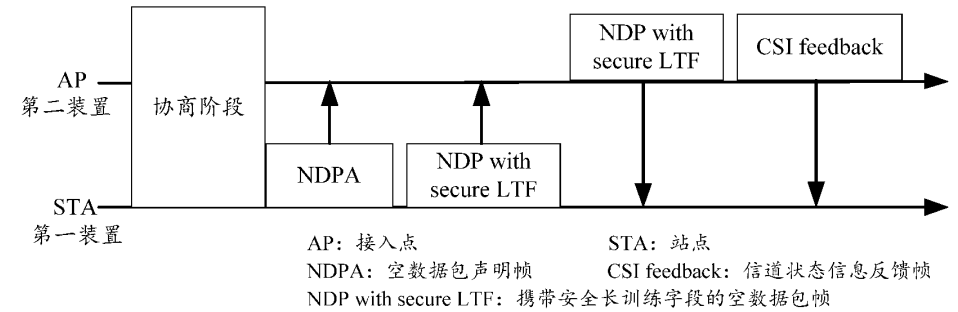


图 9 (c)

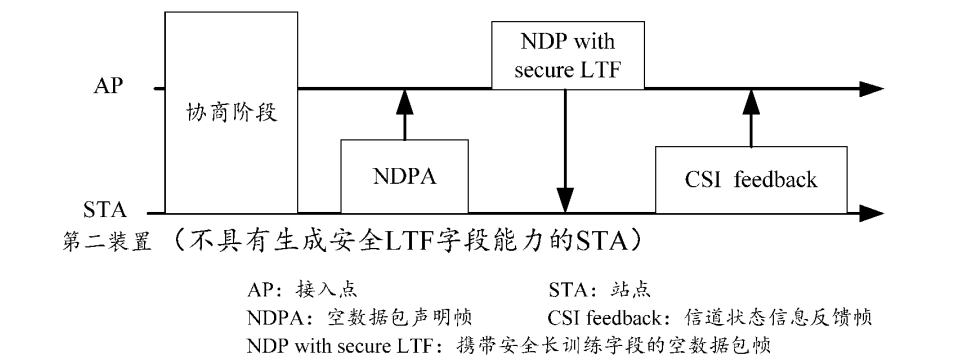


图 9 (d)

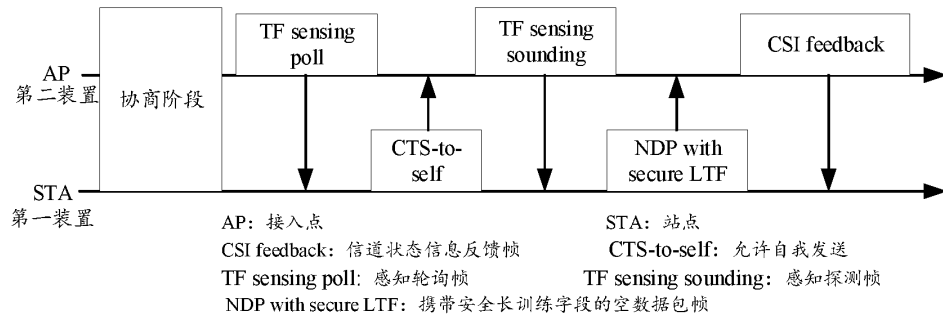


图 9 (e)

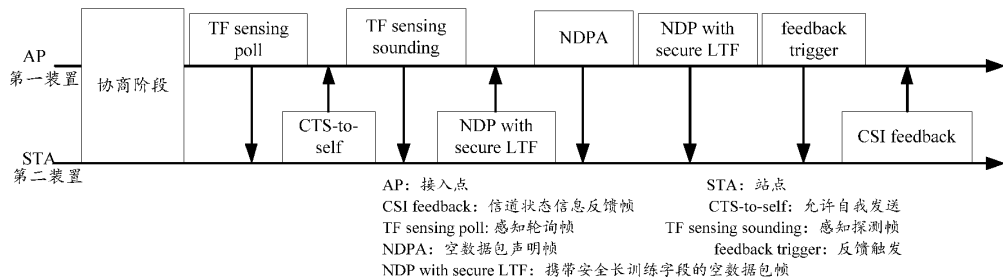


图 9 (f)

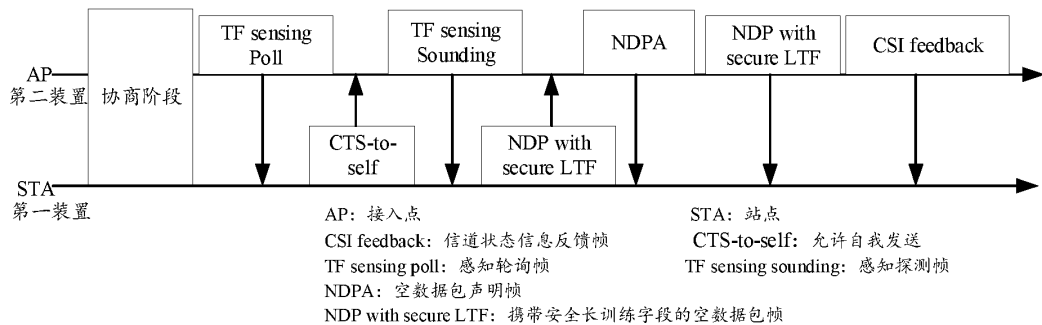


图 9 (g)

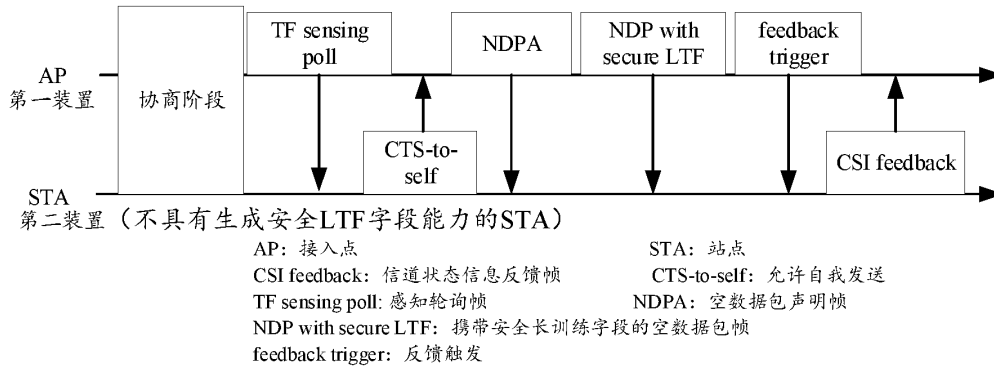


图 9 (h)

信息反馈方法200

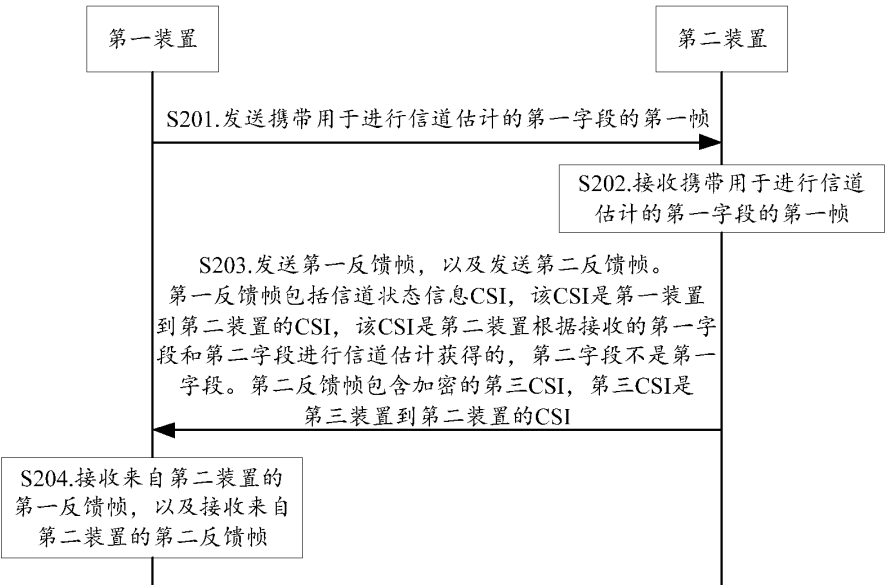


图 10

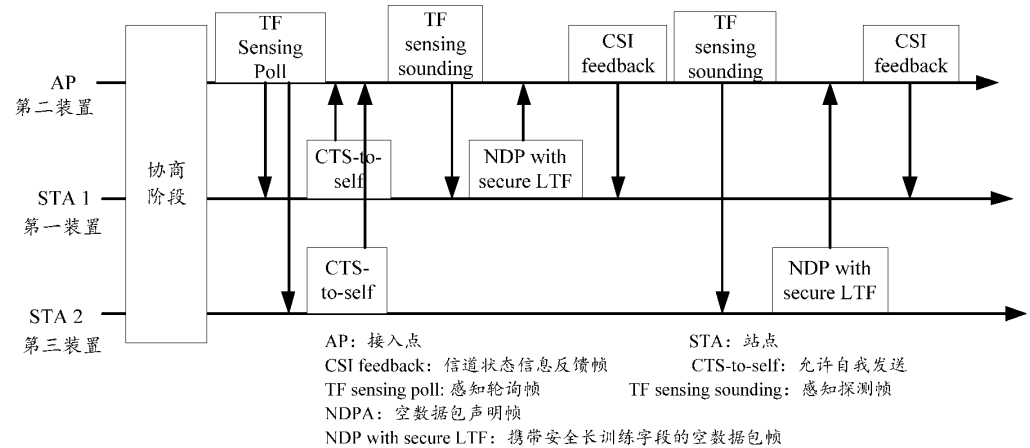


图 11 (a)

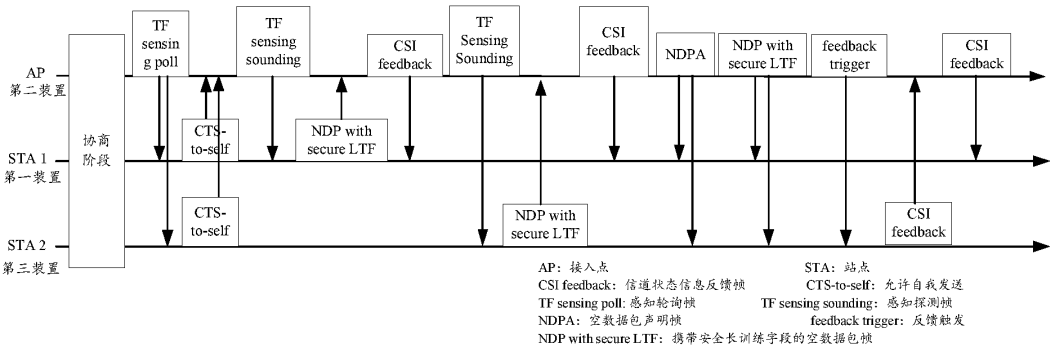


图 11 (b)

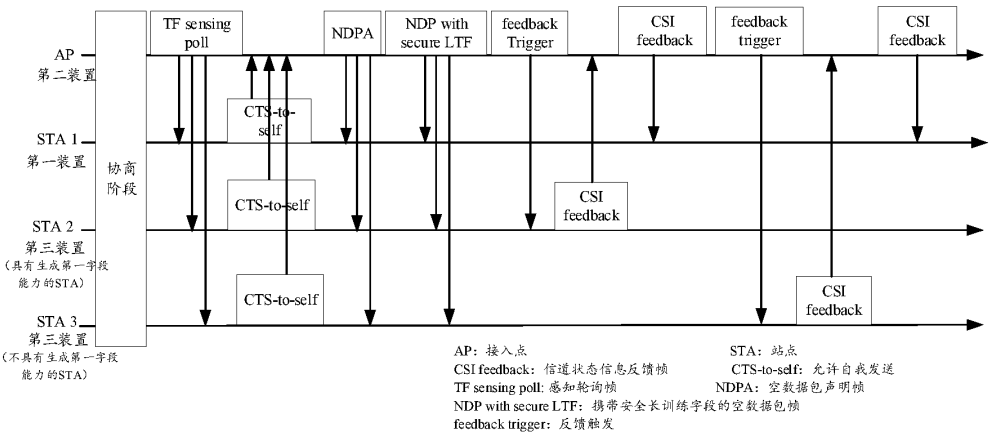


图 11 (c)

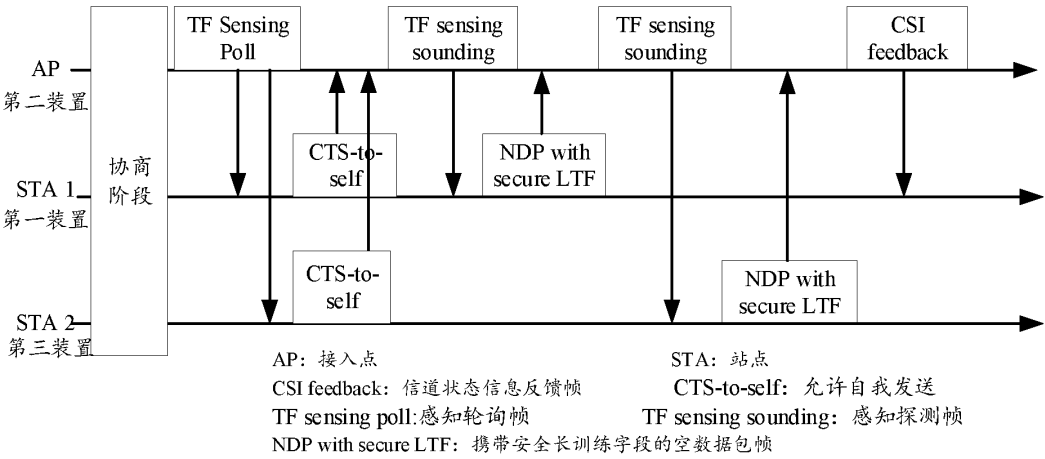


图 11 (d)

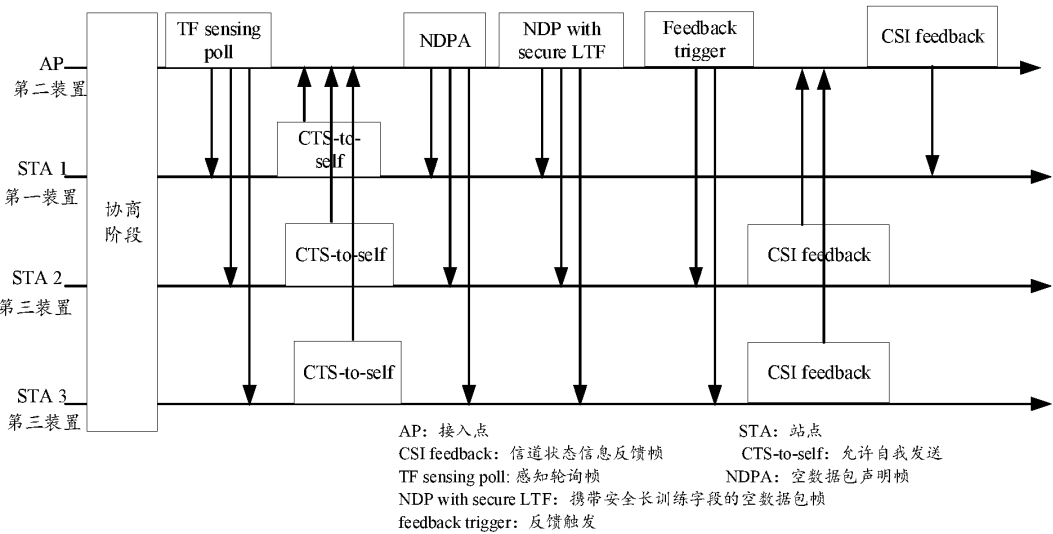


图 11 (e)

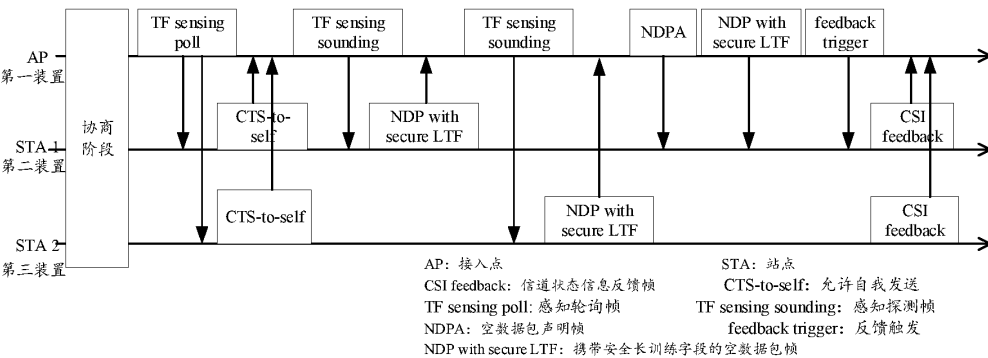


图 12 (a)

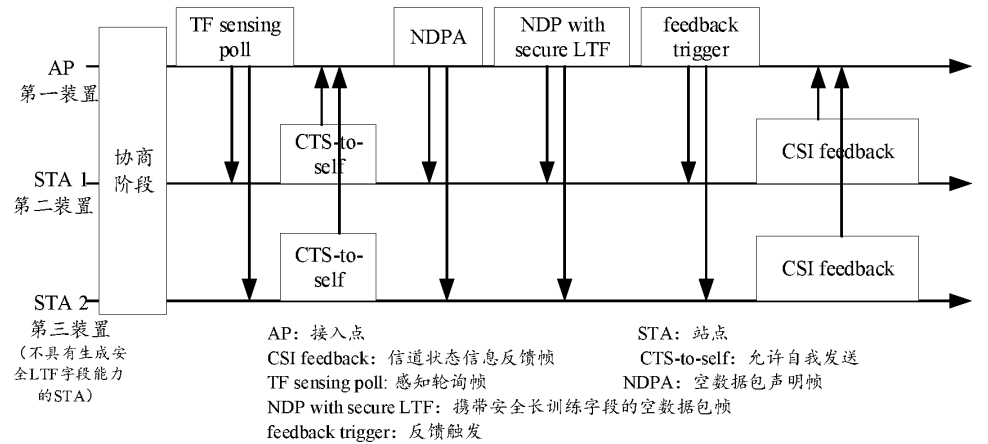


图 12 (b)

HT action field value	meaning	Time priority
0	Notify channel width	no
1	SM power save	no
2	PSMP	yes
3	reserved	-
4	CSI	yes
5	Noncompressed beamforming	yes
6	Compressed beamforming	yes
7	ASEL indices feedback	yes
8-255	reserved	-

order	information
1	category
2	HT action
3	MIMO control
4	CSI report
5	Encryption CSI report

Encryption of th CSI

reserved

HT action field value: 高通量操作字段值
Time priority: 时间优先
SM power save: 空间复用节电
CSI: 信道状态信息
Noncompressed beamforming: 非压缩波束形成
ASEL indices feedback: 天线选择指标反馈
Information: 信息
HT action: 高通量操作
CSI report: 信道状态信息报告
Encryption of the CSI: 加密的信道状态信息

meaning: 含义
Notify channel width: 通知通道宽度
PSMP: 省电多轮询
reserved: 预留
Compressed beamforming: 压缩波束形成
order: 顺序
category: 类别
MIMO control: 多输入输出控制
encryption CSI report: 加密信道状态信息报告

图 13 (a)

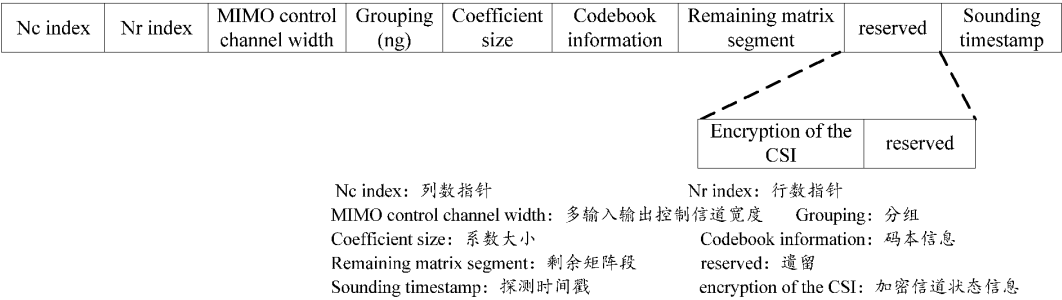


图 13 (b)

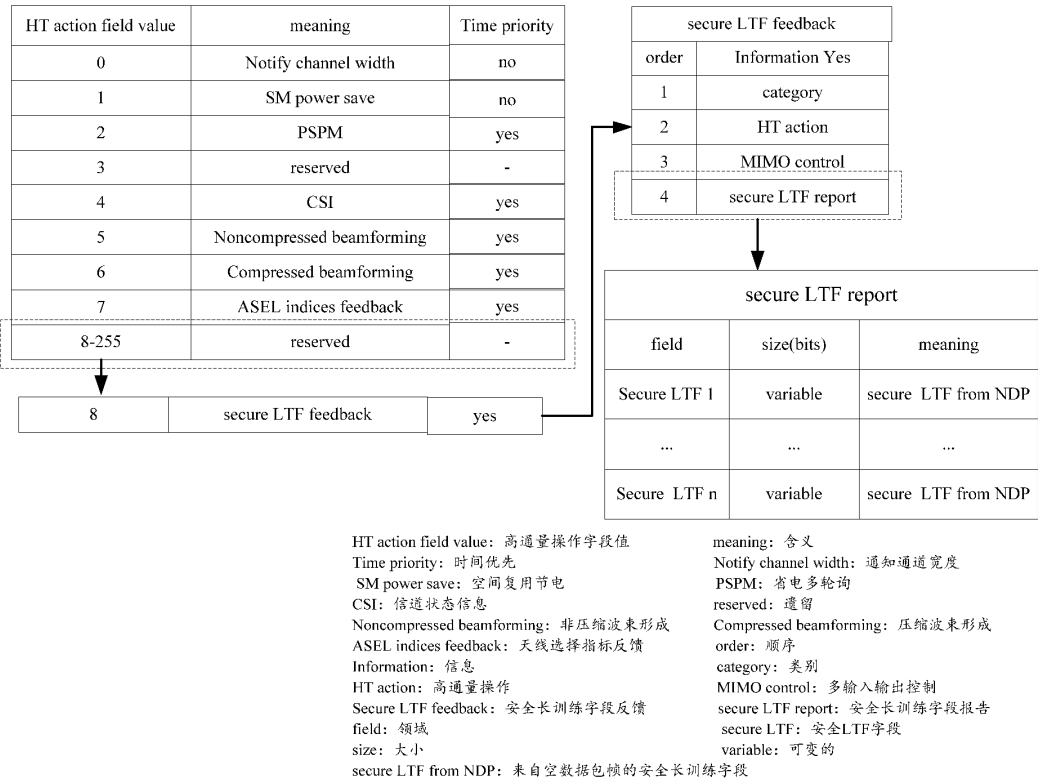


图 13 (c)

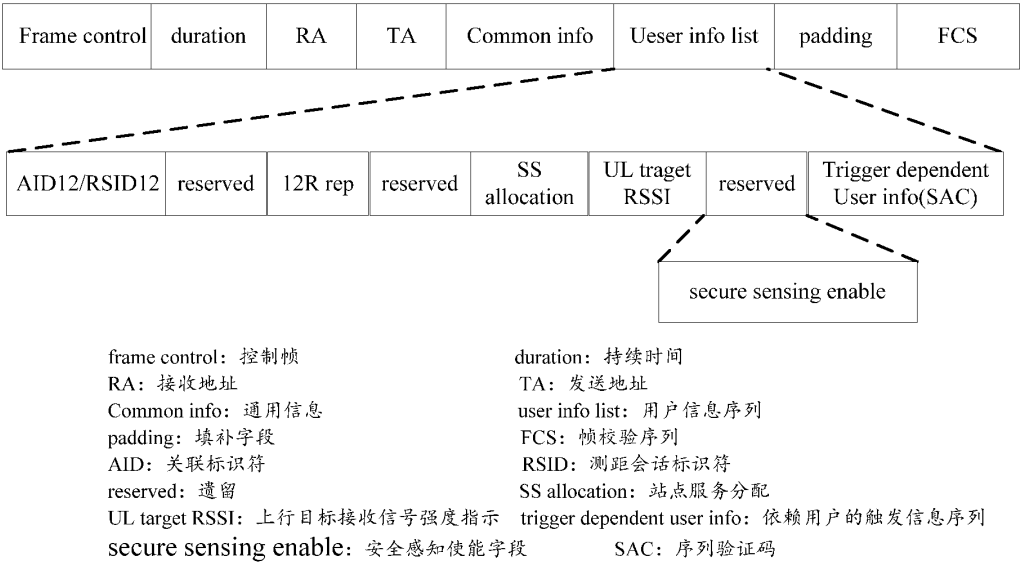


图 14 (a)

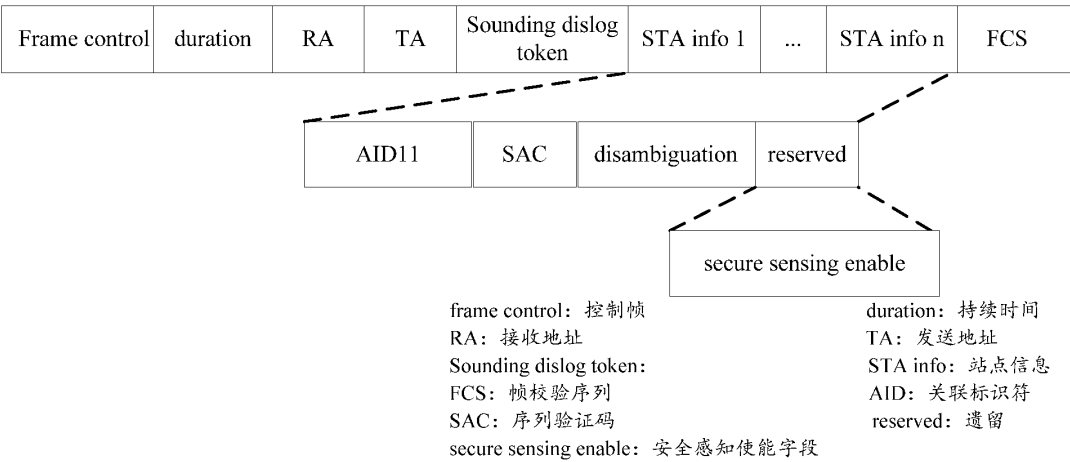


图 14 (b)

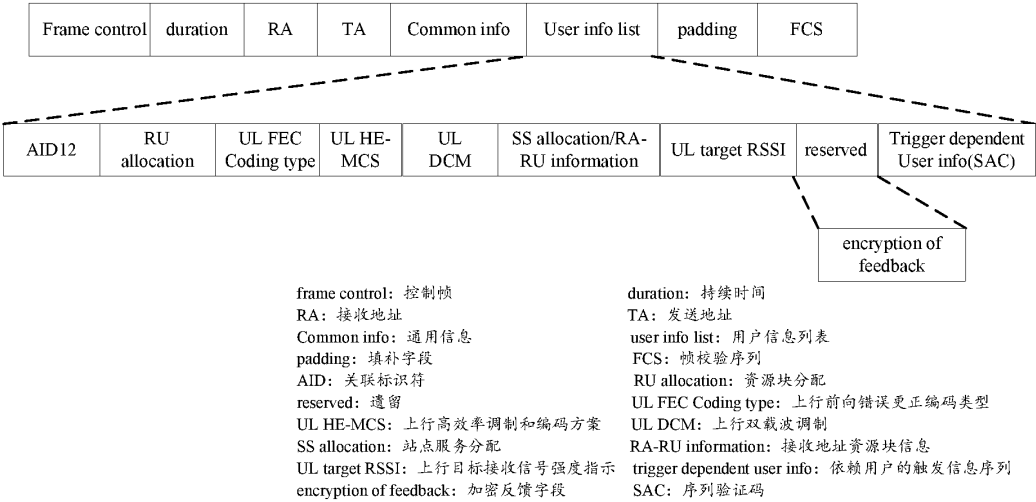


图 15

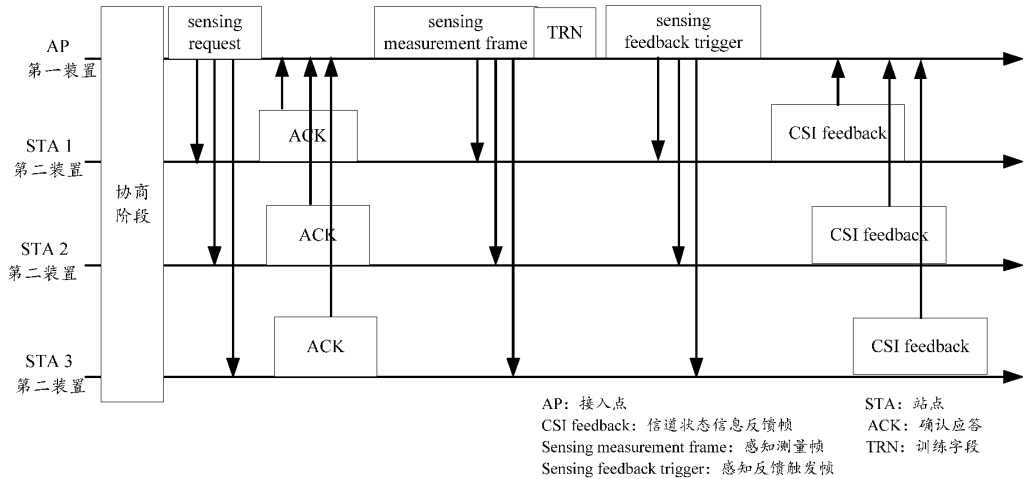


图 16

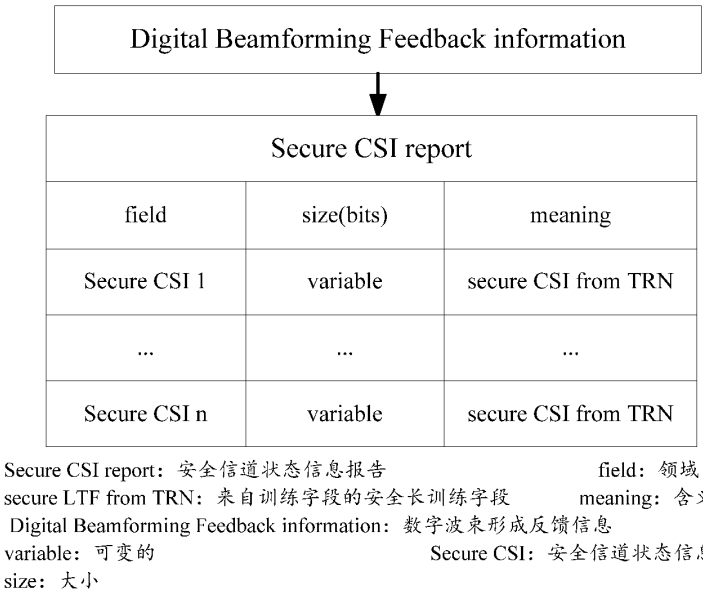


图 17 (a)

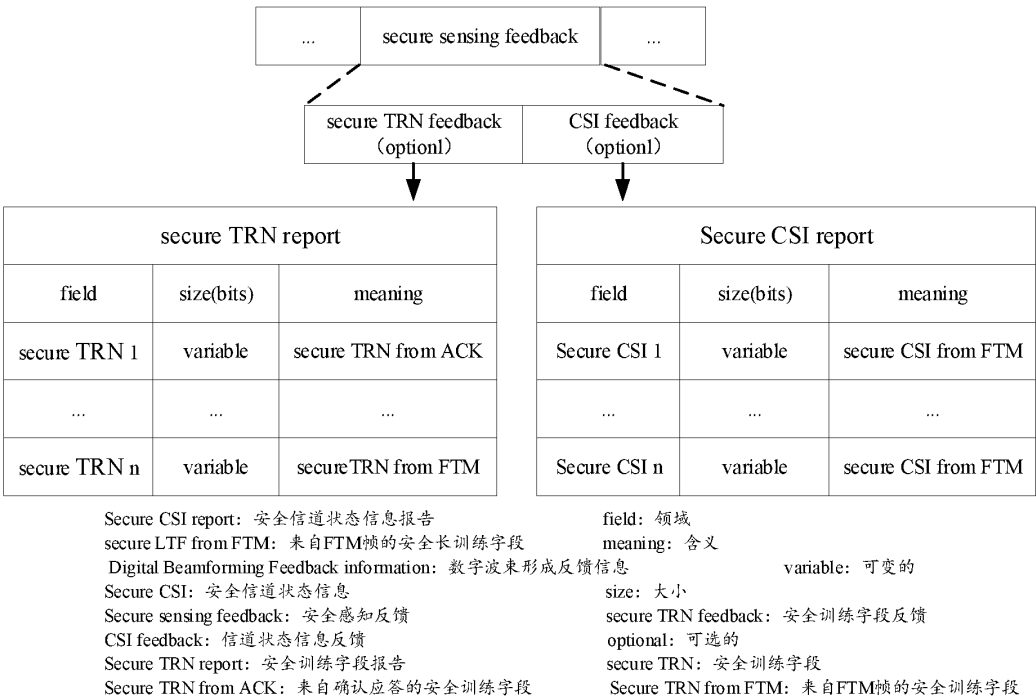


图 17 (b)

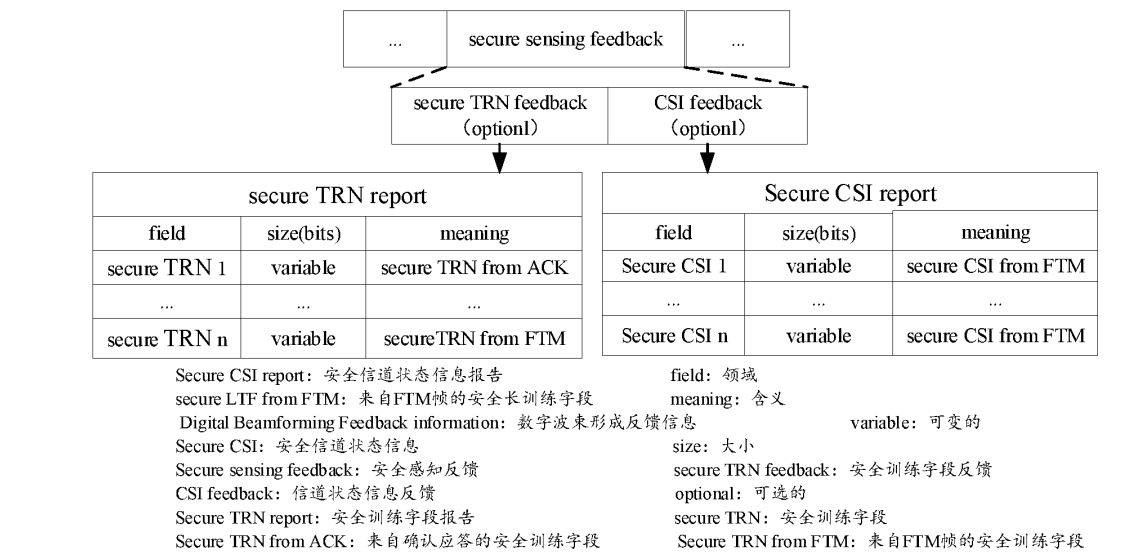


图 17 (c)

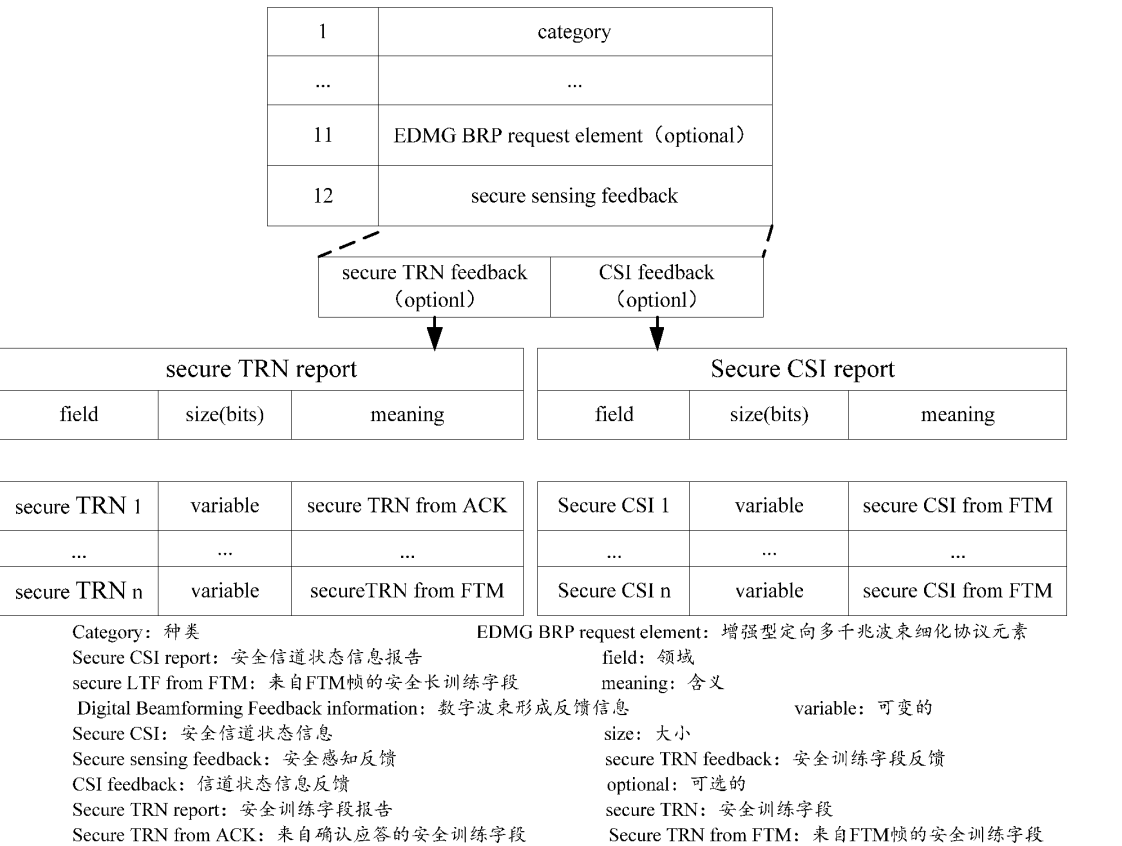


图 17 (d)

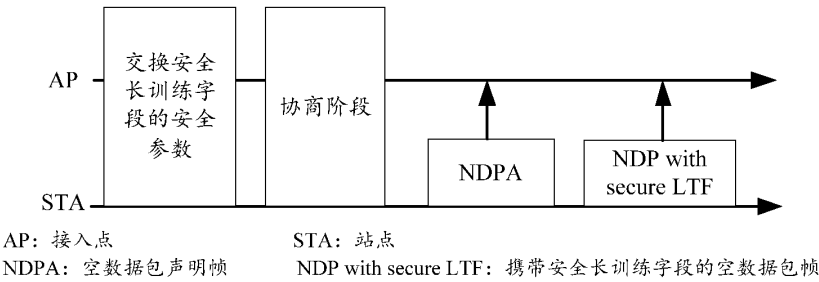


图 18 (a)

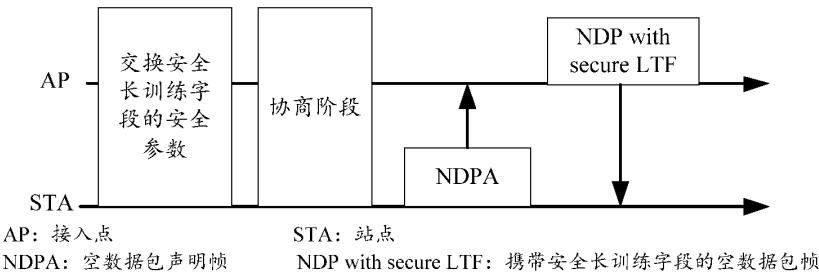


图 18 (b)

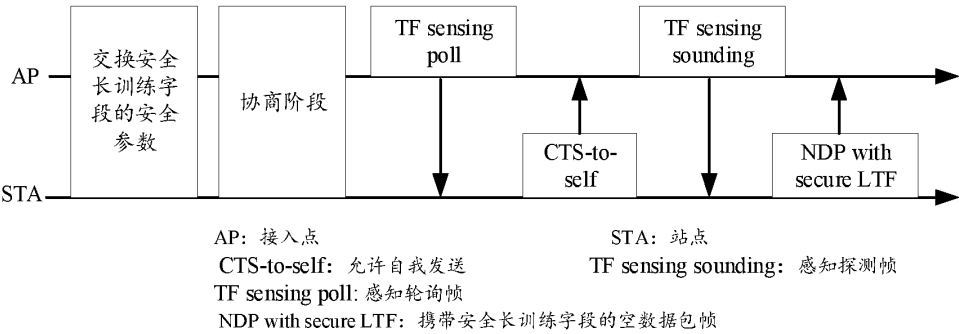


图 18 (c)

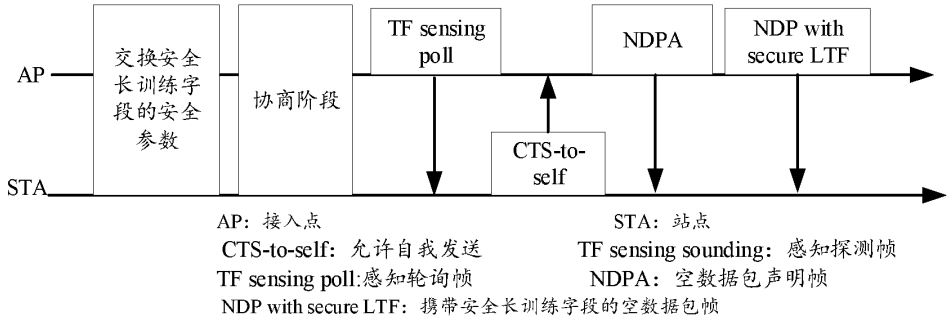


图 18 (d)

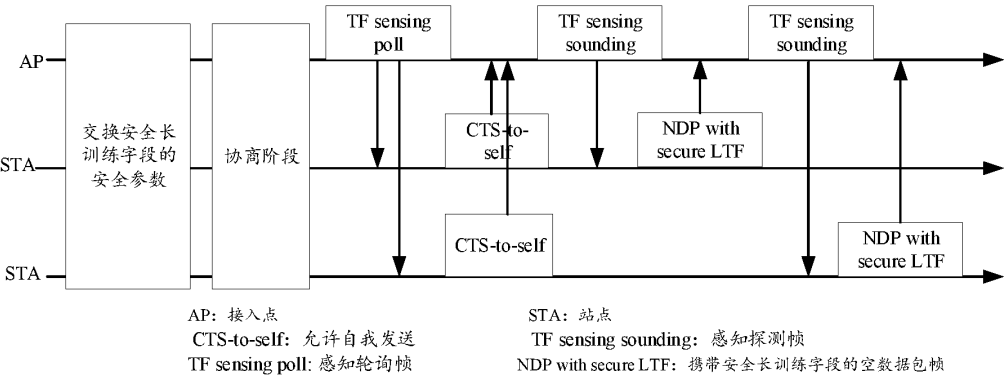


图 18 (e)

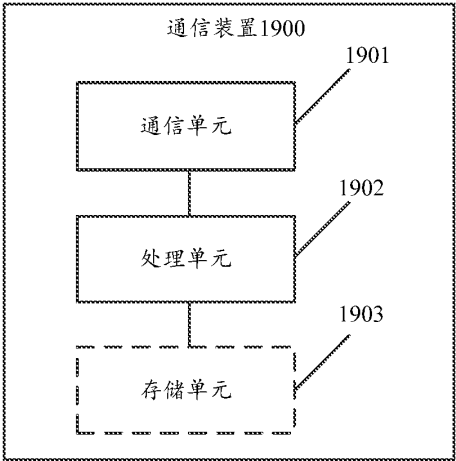


图 19

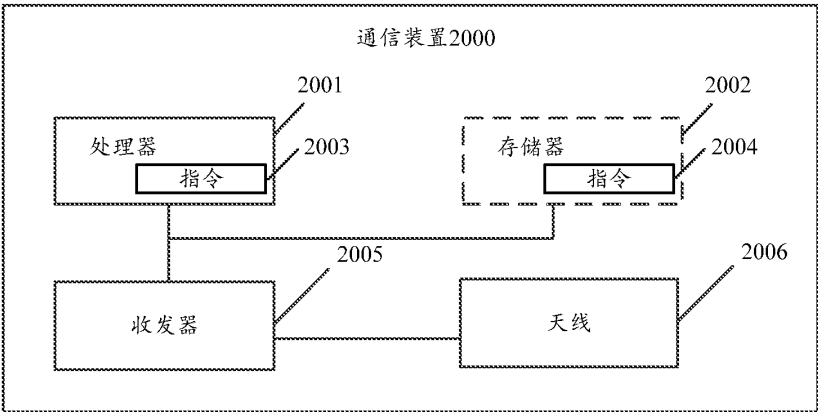


图 20