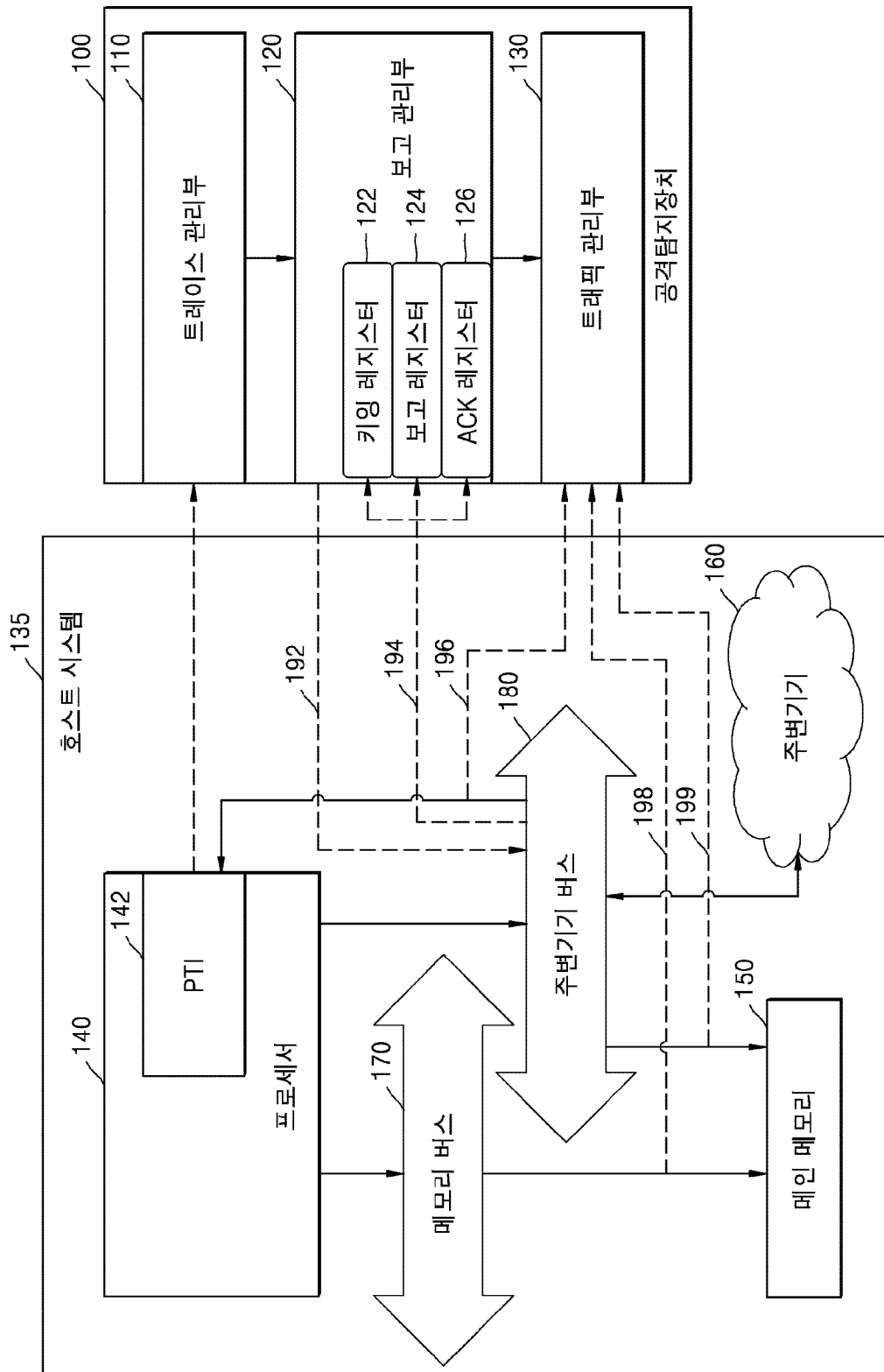
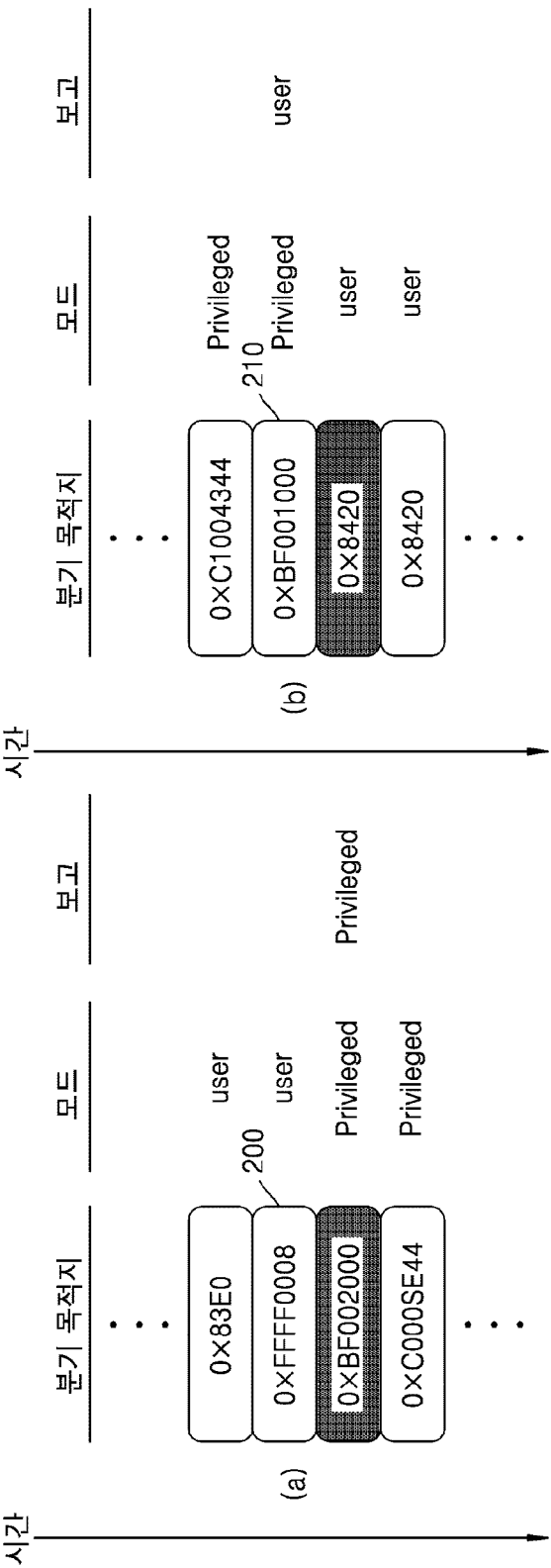


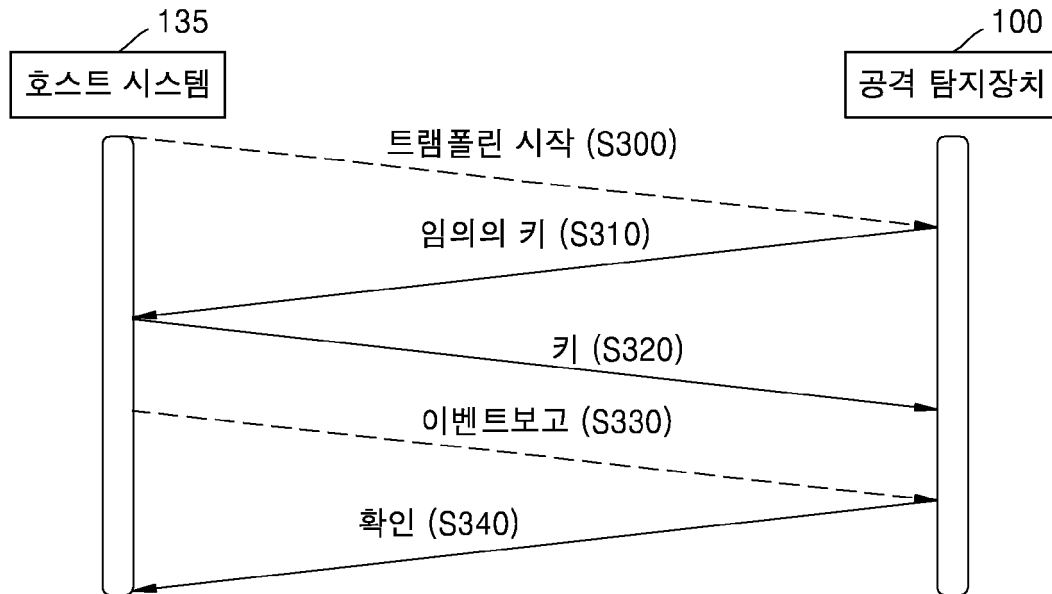
[도1]



[도2]



[도3]

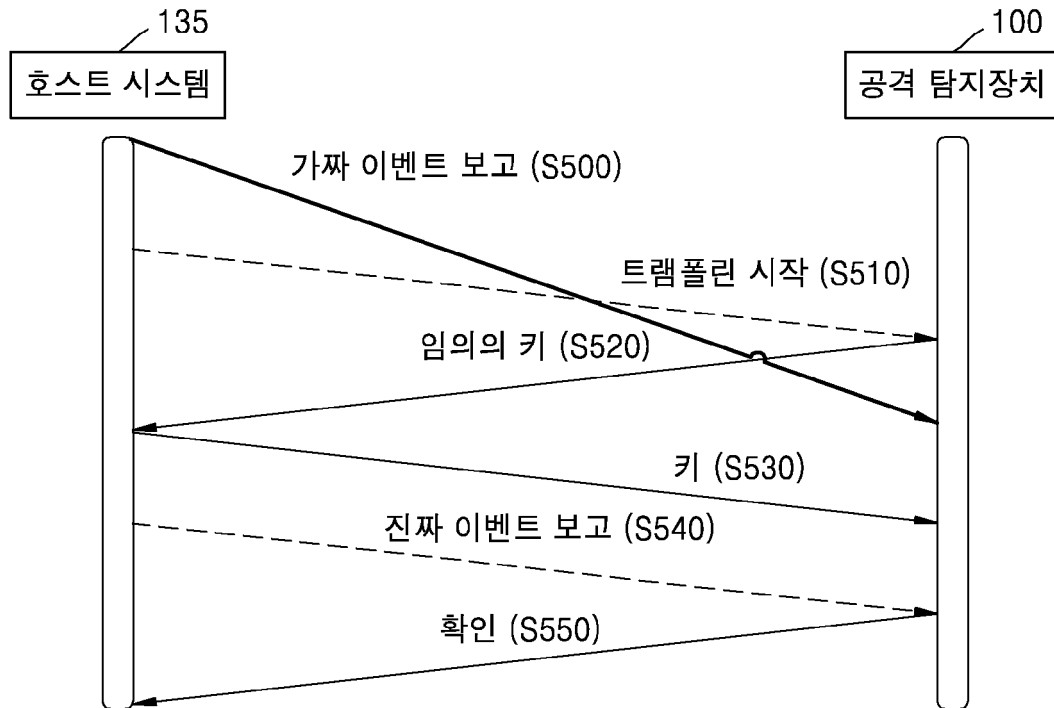


[도4]

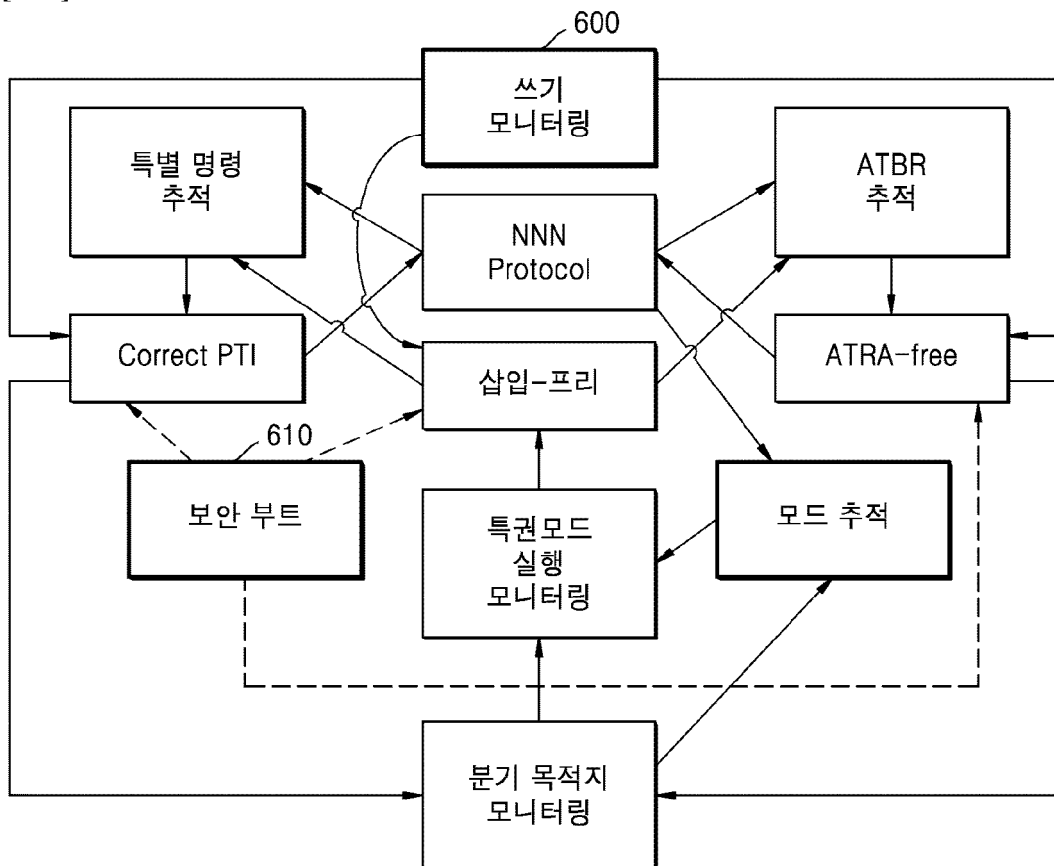
```

(1)  enter:
(2)      cpsid i                ;; 인터럽트 비활성화
(3)      1dr  r3, key_reg_addr  ;; 키 레지스터 주소
(4)  wait_for_key:
(5)      1dr  r6, [r3]          ;; 키잉 레지스터 값 로드
(6)      cmp  r6, #0
(7)      beq  wait_for_key
(8)  /*report and emulate*/    ;; r3+#4 => 보고 레지스터
(9)      str  r6, [r3, #4]      ;; 키 보고
(10)     str  r5, [r3, #4]      ;; 새로운 값 보고
(11)     mcr  p15, 0, r5, c12, c0, 0 ;; VBAR 갱신
(12)     isb  sy
(13)  wait_for_ack:
(14)     1dr  r6, [r3, #8]      ;; Ack 레지스터 값 로드
(15)     cmp  r6, #0xF
(16)     bne  wait_for_ack
(17)     1dr  r3, return_val    ;; 컨텍스트 복구 및 리턴
(18)     cpsie i                ;; 인터럽트 활성화
(19)     bx   r3
(20)  exit
  
```

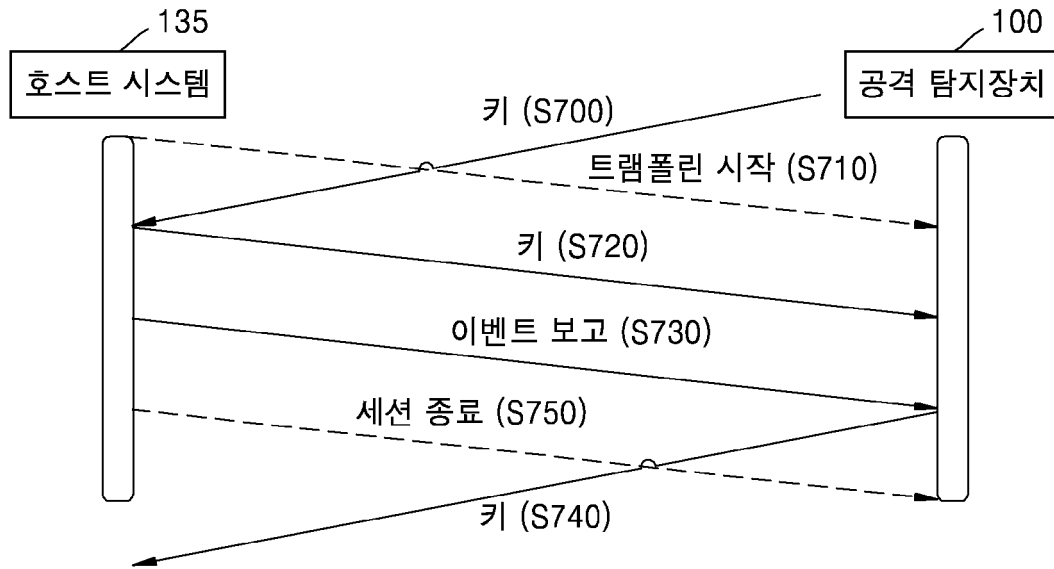
[도5]



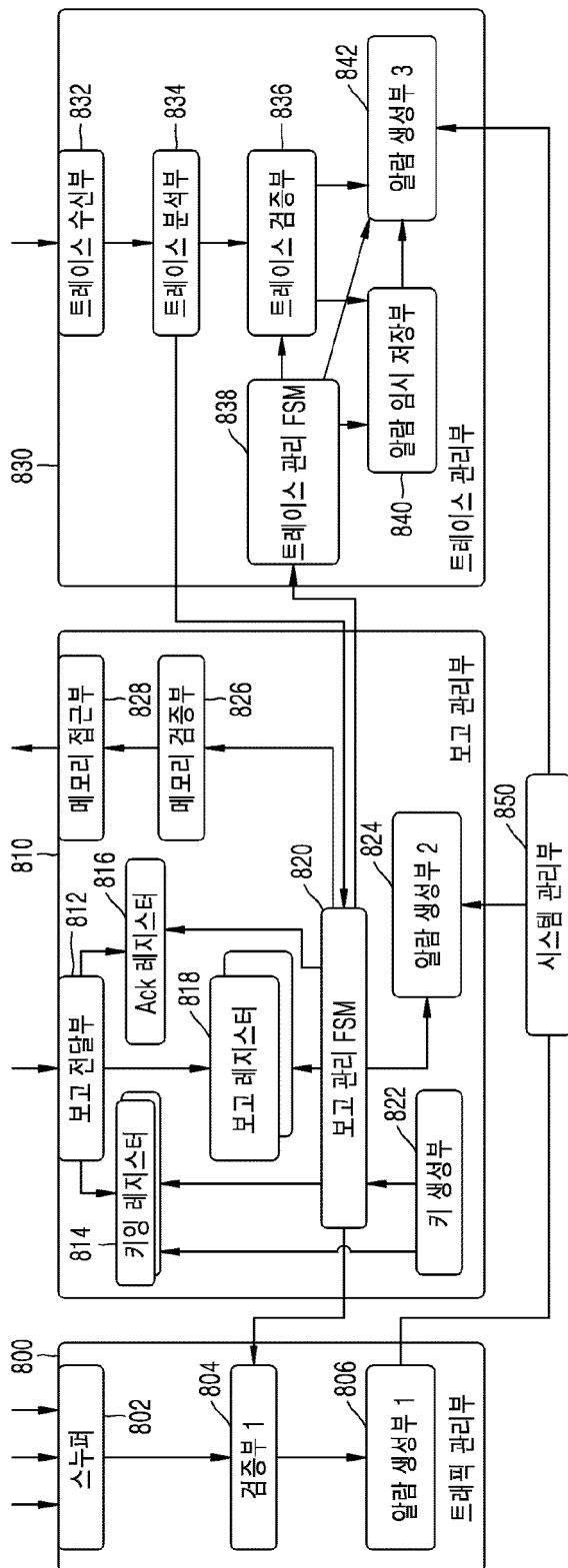
[도6]



[도7]



[도8]



[도9]

