

(19)
(12)

(KR)
(Y1)

(51) Int. Cl.7
H04Q 7/24

(45)
(11)
(24)

2003 11 07
20-0332331
2003 10 28

(21) 20-2003-0020599
(22) 2003 06 28

(30) 60/392,594 2002 06 28 (US)

(73) , 19801, , 300, 527

(72) 19422 135

(74)

가 :

(54) WLAN -

(traffic) / (signaling/control) (cellular)
(routing) / (incoming mobile terminated session) (alert)

4

1 (joint) WLAN -

2 4 - (scenario) A0 A2

5	7	-	B0	B2	.
8	10	-	C0	C2	.

(WLAN)- (mobile terminated process) WLAN-

WLAN- (coordination) (GPRS; General Packet Radio Service) (PS; packet switched) (CS; circuit switched)

1 WLAN (coverage) 가 1 A
 WLAN, C B 가
 (UE; user equipment) WLAN 가
 (capability)

(mobile-originated process) WLAN- (링크) / (session/call) UE () UE (routing)

WLAN-

e), (UE) / (WTRU; wireless transmit/receive unit), (mobil
 (environment) 가
 WLAN, (PLMN; public land mobile networks)
 / UE (가)

(BS) -B.

WLAN- (1 WLAN- 가 WLAN 가
) / WLAN- UE () UE ()

UE, UE (idle) (active) 가
 (broadcast) (paging)
 / / , UE

UE A, B, C가 A UE WLAN GPRS UE WLAN B UE WLAN C UE
 E WLAN B UE WLAN B U
 WLAN () 가 C UE
 3 (hard power) UE (off) 가
 () UE (가) WLAN UE
 UE
 2 UE 1 UE
 " 1 " / (signaling/control) (transmission) (notification) UE
 , UE 2 가 UE 2 UE
 WLAN / / 0 WLAN / 가/ (AAA; authen
 tication/ authorization/accounting) / 1 / /
 WLAN 2 / / WLAN
 UE

	A UE	B UE	C UE
0	A0	B0	C0
1	A1	B1	C1
2	A2	B2	C2

2 UE WLAN- A0 WLAN,
 12, 14 16 A UE (18)
 / WLAN (20) UE(16) (12, 14) A0 ,
 UE(16) (14) WLAN(12) (14) WLAN(12)
 A0 UE(16) UE가 UE(16) WLAN(12)
 , WLAN(12) UE(16) 가 , UE(16) W
 LAN(12) (14) (14)
 UE(16) 가 , UE(16) (14)
 WLAN(12) , WLAN(12) UE(16)

3 (A) UE(16) , A1 (22) WLAN(12) A1 A0 A0 (14)

, 14) WLAN(12) , UE(16) (14) (14) WLAN(12) (22) WLAN(12) (14) , (12, 14) /

(22)

UE(16) (14) WLAN(12) WLAN(12) (14) (22) , (14)가

) WLAN(12) UE(16) WLAN(12) (14)가

UE(16) , WLAN(12) (14) (14) () ,

(14) , UE(16) WLAN(12) (PSTN) 가 .

UE(16) (14) WLAN(12) WLAN(12) , WLAN(12)

(14) WLAN(12) UE(16) (14) (22) , WLAN(12)가 W

LAN WLAN(12) . WLAN(12) (14)

4 A (22) , A1 (24) A2가 . UE(16) A2 , 가 UE(16) /

22) , WLAN(12) (14) WLAN(12) (14) WLAN(12) (14) WLAN(12) ()

(14) , UE(16) (14) WLAN(12)

UE(16) (14) WLAN(12) WLAN(12) (14) (22) , (14)

) WLAN(12) UE WLAN(12) (14) WLAN(12) UE(16) ,

(14) (14) WLAN(12)

PSTN ,

가 , UE(16) (14) (14) WLAN(12) WLAN(12) (14) , WLAN

(12) (14) UE(16) . WLAN(12) (14) (22) ,

WLAN(12) (14) UE(16) WLAN(12)

5 B (56), WLAN(58) (60) 2 (B0)가 52, 54 B0 B2 , UE가 UE

B UE WLAN (58, 60) 52 , 가 WLAN (UE) UE(56)

(62) UE(56) WLAN(58) . 54

, (58, 60) (62) UE(56) / (61) (60) UE(56)

UE(56) (60) WLAN(58) , WLAN(58) (60) UE(56) . UE(56)

UE(56) (60) WLAN(58) UE(56) B UE (B UE (60) UE(56) WLAN

) UE(56)) (drop) (accept)

UE(56) (60) WLAN(58) , WLAN(58) UE(56) UE(56) B UE WLAN

. UE(56) WLAN

0 6 , WLAN(58) - B1 - B1 B (60) / (64) (60) (64) ,

WLAN(58) (60) WLAN(58) UE(56) WLAN(58) (60) UE (60) (64) ,

(58, 60) UE(56)

UE(56) (60) WLAN(58) WLAN(58) (60) (22) , (60) UE(56) WLAN(58) (60)

) WLAN(58) UE(56)

UE(56) (60) WLAN(58) WLAN(58) (60) (22) , WLAN(58)

(60) UE(56) WLAN(58) UE(56)

7 , - B2가 - B2 B1 (66) (

52, 54)

UE(56) (60) WLAN(58) , WLAN(58) (60) W LAN(58) (60) UE(56) . UE (64) , (58, 60) (58, 60) . WLAN(58) (60) (66) , QoS

UE(56) (60) WLAN(58) WLAN(58) (60) (64) , (60) WLAN(58) UE(56) WLAN(58) (optimal)' 가

UE(56) (60) WLAN(58) WLAN(58) (60) (64) , WLAN(58) (60) UE(56) WLAN(58) UE(56) (optimal)' 가

8 , - WLAN C0 . UE C

2, 104) C0 C2 B0 B2 (10)
 (112) / C0(100) (102) UE(106) WLAN(108)
 (110) (114) (112) / C0 (104) UE(106)
 UE가 C0

9 C1 C0
 (108, 110) (116) UE(106)가
 (110){ WLAN(108)} , WLAN(108){ (110)} WLAN(108)
 8) (110) (116) UE(106) UE(106)
 (108, 110) WLAN(108)
 108){ (110)} (110){ WLAN(108)}

UE(106)가 (110){ WLAN(108)} , WLAN(108){
 (110)} (110) WLAN(108) (116)
 UE(106) UE(106) (WLAN) , WL
 AN(108){ (110)} (110){ WLAN(
 108)} WLAN(108){ (110)}

10 C2가 C1 UE(106)
 (118) (108, 110) , WLAN(108){ UE(106)
) (110)} WLAN(108) (110) (116) UE(106)
 (110)} WLAN(108) (108, 110) (110)
 { WLAN(108)} WLAN(108){ (110)} (110)
 , UE(106) (110){ WLAN(108)}
 , WLAN(108){ (110)} (110){ WLAN(108)}
 QoS

UE(106) { WLAN(108)} , WLAN(108){
 (110)} (110) WLAN(108) (110)
 UE(106) UE(106) (WLAN) WLAN(108){
 (110)} (110){ WLAN(108)}
 , UE(106) WLAN(108){ (110)}
 108){ (110){ WLAN(108)} WLAN(
 QoS

1 UE WLAN " " WLAN WLAN
 가 , UE 1 UE WLAN /
 (1)

A1(3) , UE(16) (14) WLAN(12) WLAN(12)
 (14) / (22) UE(16) UE(16) UE(16) WLAN 가
 WLAN(12) UE(16) (14) (WLAN UE(16)
 WLAN) 가

2 A2(4) UE(16)
 (14) WLAN(12) (14)
 UE(16) (24) 가 UE(16)
 WLAN(12) (轉送) UE(16) WLAN , UE(16)

. UE(16) , UE(16) 가 ,
(WLAN) (WLAN)
가 , UE(16) WLAN(12) (14)
(WLAN , WLAN) 가

, (TDD) (hybrid) 3 (CDMA)/ (TDMA)
(FDD) (案) (beamforming) CDMA (3GPP) W-CDMA
3GPP W-CDMA
가

(57)

1. (coverage) (WLAN)

WLAN 가 WLAN WLAN ,

1 2. ,

1 3. WLAN , WLAN

1 4. WLAN (off)

5. WLAN

WLAN 가 WLAN WLAN ,

5 6. WLAN

5 7. ,

5 8.











